

HARUN YAHYA
(ADNAN OKTAR)



Miracles Of The Qur'an

-3-



The Noble Qur'an is the only Divine scripture to have come down unchanged, as a revelation from Allah, to the present day. One of the proofs confirming that the Qur'an is the word of Allah is the scientific and mathematical miracles it contains. Scientific facts that could not have been known at the time when the Qur'an was sent down, reports concerning earlier times, events referring to the future and the mathematical arrangements within it are just a few of the miraculous aspects of the Qur'an.

As the word of Allah, the Almighty and Omniscient, the Noble Qur'an also contains a great many facts that people are unable to understand or lack the information with which to comprehend them. By means of advances in science and technology, this information is emerging into the light of day – at a time and in a manner of our Lord's choosing – and is further revealing the miraculous nature of the Qur'an.

There is certainly no need to see these miraculous features or examples that confirm that the Qur'an is in complete agreement with science in order to believe that the Qur'an is the revelation of Allah. The Qur'an is a book that distinguished between truth and falsehood and reflected Allah's infinite wisdom and knowledge even long before these scientific discoveries were made. However, the examples in this book will be instrumental in many people not living by the religious morality coming to have faith and in increasing Muslims' fervor and depth of faith. As our Lord reveals in one verse in the Qur'an:

We will show them Our signs on the horizon and within themselves until it is clear to them that it is the truth. ... (Surah Fussilat, 53)



ABOUT THE AUTHOR:

Adnan Oktar, who writes under the pen-name Harun Yahya, was born in Ankara in 1956. Since the 1980s, the author has published many books on faith-related, scientific and political issues. He is well-known as the author of important works disclosing the imposture of evolutionists, their invalid claims, and the dark liaisons between Darwinism and such bloody ideologies as fascism and communism.

All of the author's works share one single goal: to convey the Qur'an's message, encourage readers to consider basic faith-related issues such as Allah's existence and unity and the Hereafter; and to expose irreligious systems' feeble foundations and perverted ideologies. His more than 300 works, translated into 63 different languages, enjoy a wide readership across the world. By the will of Allah, the books of Harun Yahya will be a means through which people in the twenty-first century will attain the peace, justice, and happiness promised in the Qur'an.

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

اللَّهُ
رَسُولُ
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- 3 -

*Harun Yahya
(Adnan Oktar)*



ABOUT THE AUTHOR

Now writing under the pen-name of HARUN YAHYA, Adnan Oktar was born in Ankara in 1956. Having completed his primary and secondary education in Ankara, he studied fine arts at Istanbul's Mimar Sinan University and philosophy at Istanbul University. Since the 1980s, he has published many books on political, scientific, and faith-related issues. Harun Yahya is well-known as the author of important works disclosing the imposture of evolutionists, their invalid claims, and the dark liaisons between Darwinism and such bloody ideologies as fascism and communism.

Harun Yahya's works, translated into 72 different languages, constitute a collection for a total of more than 55,000 pages with 40,000 illustrations.

His pen-name is a composite of the names Harun (Aaron) and Yahya (John), in memory of the two esteemed Prophets who fought against their peoples' lack of faith. The Prophet's seal on his books' covers is symbolic and is linked to their contents. It represents the Qur'an (the Final Scripture) and Prophet Muhammad (saas), last of the prophets. Under the guidance of the Qur'an and the Sunnah (teachings of the Prophet [saas]), the author makes it his purpose to disprove each fundamental tenet of irreligious ideologies and to have the "last word," so as to completely silence the objections raised against religion. He uses the seal of the final Prophet (saas), who attained ultimate wisdom and moral perfection, as a sign of his intention to offer the last word.

All of Harun Yahya's works share one single goal: to convey the Qur'an's message, encourage readers to consider basic faith-related issues such as Allah's existence and unity and the Hereafter; and to expose irreligious systems' feeble foundations and perverted ideologies.

Harun Yahya enjoys a wide readership in many countries, from India to America, England to Indonesia, Poland

to Bosnia, Spain to Brazil, Malaysia to Italy, France to Bulgaria and Russia. Some of his books are available in English, French, German, Spanish, Italian, Portuguese, Urdu, Arabic, Albanian, Chinese, Swahili, Hausa, Dhivehi (spoken in Maldives), Russian, Serbo-Croat (Bosnian), Polish, Malay, Uygur Turkish, Indonesian, Bengali, Danish and Swedish.

Greatly appreciated all around the world, these works have been instrumental in many people recovering faith in Allah and gaining deeper insights into their faith. His books' wisdom and sincerity, together with a distinct style that's easy to understand, directly affect anyone who reads them. Those who seriously consider these books, can no longer advocate atheism or any other perverted ideology or materialistic philosophy, since these books are characterized by rapid effectiveness, definite results, and irrefutability. Even if they continue to do so, it will be only a sentimental insistence, since these books refute such ideologies from their very foundations. All contemporary movements of denial are now ideologically defeated, thanks to the books written by Harun Yahya.

This is no doubt a result of the Qur'an's wisdom and lucidity. The author modestly intends to serve as a means in humanity's search for Allah's right path. No material gain is sought in the publication of these works.

Those who encourage others to read these books, to open their minds and hearts and guide them to become more devoted servants of Allah, render an invaluable service.

Meanwhile, it would only be a waste of time and energy to propagate other books that create confusion in people's minds, lead them into ideological confusion, and that clearly have no strong and precise effects in removing the doubts in people's hearts, as also verified from previous experience. It is impossible for books devised to emphasize the author's literary power rather than the noble goal of saving people from loss of faith, to have such a great effect. Those who doubt this can readily see that the sole aim of Harun Yahya's books is to overcome disbelief and to disseminate the Qur'an's moral values. The success and impact of this service are manifested in the readers' conviction.

One point should be kept in mind: The main reason for the continuing cruelty, conflict, and other ordeals endured by the vast majority of people is the ideological prevalence of disbelief. This can be ended only with the ideological defeat of disbelief and by conveying the wonders of creation and Qur'anic morality so that people can live by it. Considering the state of the world today, leading into a downward spiral of violence, corruption and conflict, clearly this service must be provided speedily and effectively, or it may be too late.

In this effort, the books of Harun Yahya assume a leading role. By the will of Allah, these books will be a means through which people in the twenty-first century will attain the peace, justice, and happiness promised in the Qur'an.





Miracles of the Qu'ran

- 3 -

*Harun Yahya
(Adnan Oktar)*



TO THE READER

- A special chapter is assigned to the collapse of the theory of evolution because this theory constitutes the basis of all anti-spiritual philosophies. Since Darwinism rejects the fact of creation—and therefore, Allah's existence—over the last 150 years it has caused many people to abandon their faith or fall into doubt. It is therefore an imperative service, a very important duty to show everyone that this theory is a deception. Since some readers may find the opportunity to read only one of our books, we think it appropriate to devote a chapter to summarize this subject.

- All the author's books explain faith-related issues in light of Qur'anic verses, and invite readers to learn Allah's words and to live by them. All the subjects concerning Allah's verses are explained so as to leave no doubt or room for questions in the reader's mind. The books' sincere, plain, and fluent style ensures that everyone of every age and from every social group can easily understand them. Thanks to their effective, lucid narrative, they can be read at one sitting. Even those who rigorously reject spirituality are influenced by the facts these books document and cannot refute the truthfulness of their contents.

- This and all the other books by the author can be read individually, or discussed in a group. Readers eager to profit from the books will find discussion very useful, letting them relate their reflections and experiences to one another.

- In addition, it will be a great service to Islam to contribute to the publication and reading of these books, written solely for the pleasure of Allah. The author's books are all extremely convincing. For this reason, to communicate true religion to others, one of the most effective methods is encouraging them to read these books.

- We hope the reader will look through the reviews of his other books at the back of this book. His rich source material on faith-related issues is very useful, and a pleasure to read.

- In these books, unlike some other books, you will not find the author's personal views, explanations based on dubious sources, styles that are unoblivious of the respect and reverence due to sacred subjects, nor hopeless, pessimistic arguments that create doubts in the mind and deviations in the heart.



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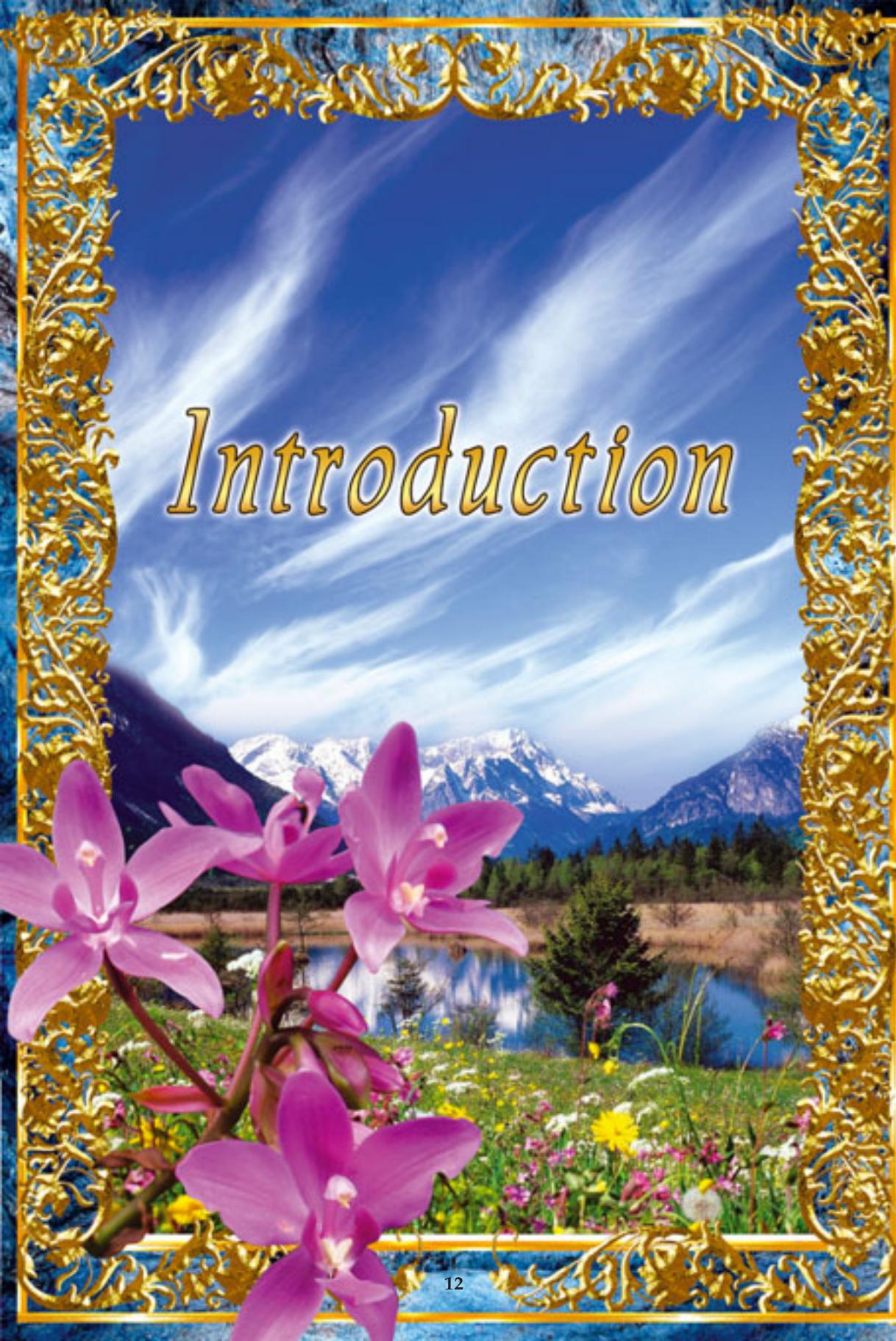
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Introduction

The Holy Qur'an is the only holy scripture revealed by Allah (God) that has remained completely uncorrupted. In its inimitable verses, our Almighty Lord has revealed that the Qur'an is a protected Book. Unlike other scriptures, it has never been – and cannot be corrupted in any way whatsoever:

The Words of your Lord are perfect in truthfulness and justice. No one can change His Words. He is the All-Hearing, the All-Knowing. (Surat al-An'am, 115)

It is We Who have sent down the Reminder and We Who will preserve it. (Surat al-Hijr, 9)

The first two volumes of this book has already referred to some of the miraculous features proving that the Qur'an is Allah's Word. Scientific facts unknown at the time the Qur'an was revealed, accurate accounts of major historical events from the past, bold predictions about the future, astonishing word repetition patterns that could not have come about by accident, calculations based on the number 19 and noteworthy dates calculated using numerological analysis are just a few of the miraculous aspects of the Qur'an. In addition to its scientific and mathematical miracles, the Qur'an also has no peers when it comes to its beautiful style and its unique Arabic rhyme. (For detailed information see, Harun Yahya, *The Miracles of the Qur'an*, expanded 4th edition.)

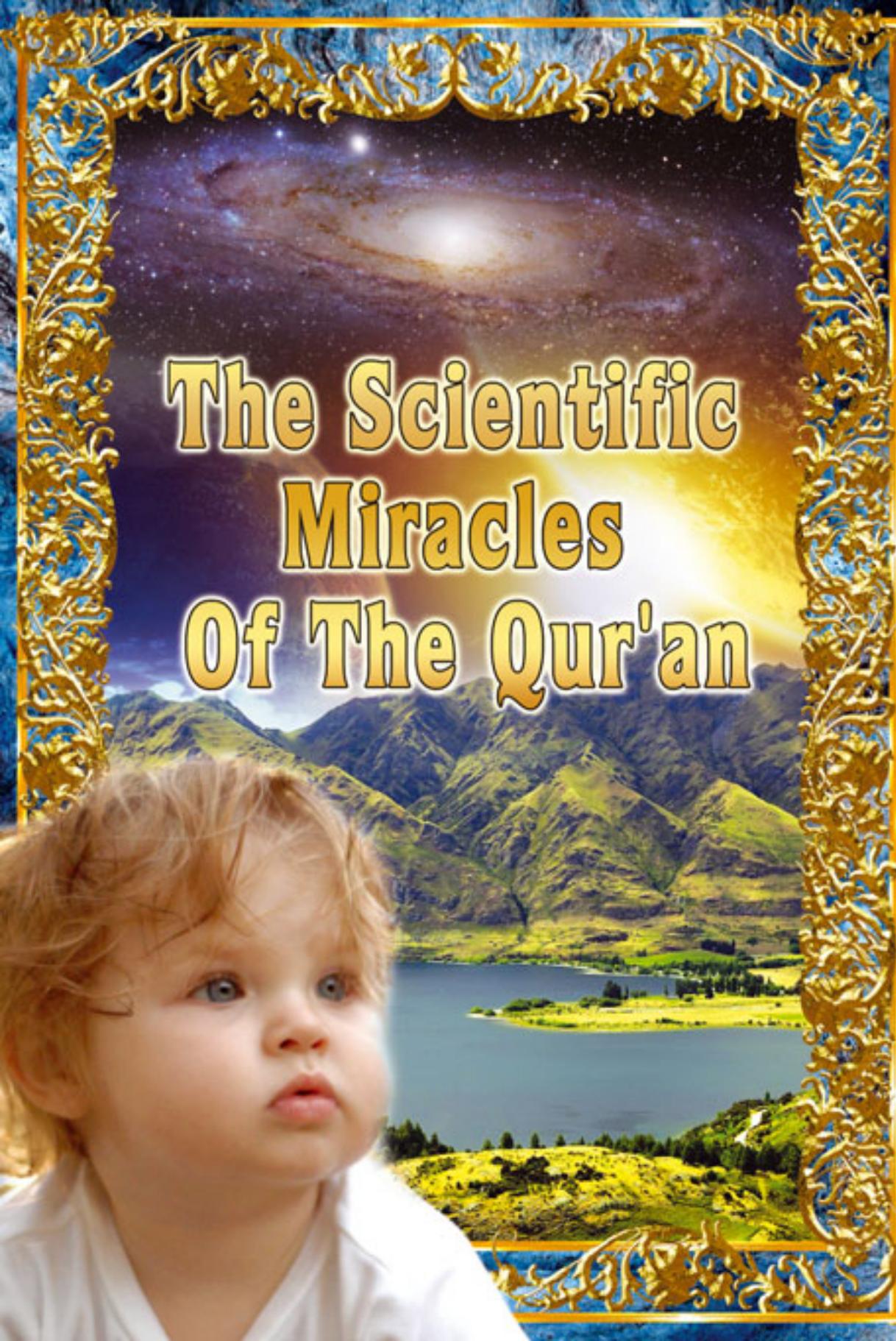


Since the first edition of this book was published over a decade ago, further research into these subjects has revealed numerous previously-unknown examples of miracles related to this Scripture, revealed to the Prophet Muhammad (saas) fourteen centuries ago. In truth, one can certainly expect that the depth of the knowledge contained in the Qur'an will continue to amaze mankind for many years to come. (Allah knows the truth.) As the word of Omniscient Allah, the Holy Qur'an contains much information that people have not understood or are as yet unable to comprehend. By means of the advances in science and technology, that information comes to light at the time of Allah's Choosing.

Muslims believe in Allah, His Messenger Muhammad (saas) and the Qur'an. Whilst believers don't need these modern discoveries to prove that the Qur'an is the word of Allah – this truth is already clear – these new facts certainly show doubters that the Qur'an is totally compatible with science. However, we must always remember that the Qur'an is a book

that distinguishes between truth and falsehood – and this is its outstanding characteristic. In addition, the Qur'an perfectly reflects the infinite knowledge and wisdom of Allah. The purpose of this book is to help people with very little religious belief understand they cannot ignore the facts contained in the Qur'an. For Muslims, it will simply add to their knowledge. In one verse of the Qur'an our Lord says:

We will show them Our Signs on the horizon and within themselves until it is clear to them that it is the truth. Is it not enough for your Lord that He is a witness of everything? (Surah Fussilat, 53)



The Scientific Miracles Of The Qur'an

FOSSILIZATION AND IRON CONTENT

"They say, 'What! When we are bones and crumbled dust, will we then be raised up as a new Creation!' Say: 'It would not matter if you were rock or iron or indeed any created thing that you think is harder still!' They will say, 'Who will bring us back again?' Say: 'He Who brought you into being in the first place'..." (Surat al-Isra', 49-51)

These verses refer to the petrification of dead bodies and how these corpses, over time, turned into iron. Living tissue is not preserved over millions of years – which is why it is only possible to clearly see creatures of the past today once they have been fossilized. After they die, living things can be preserved for millennia by the fossilization process, by their bodies literally turning into stone under the ground. The word "fossil" refers to "the preservation of a living thing by petrification," by its turning into stone.

Iron is preserved undamaged in the body as the body becomes fossilized. Human beings need to consume an average of 10-15 milligrams of iron a day in order to be healthy. Any excess iron consumed is stored in the liver. In addition, the protein transferred in blood plasma also carries a certain amount of iron.¹ The reference in the verse to the presence of iron in the remains of the human body is exceedingly wise from that point of view.

Research has also shown the presence of "pyrite," (FeS_2) a compound of iron and sulfur, in fossils.² The iron sulfide forms

very easily during the degradation of organic substances.

It is therefore generally found in fossil shells and is capable of damaging the fossils since it can react with oxygen and water. The words "crumbled dust" in the verse may be a reference to "pyrite degradation," which leads to the fragmentation and collapse of a fossil as pyrite reacts with water and oxygen.³



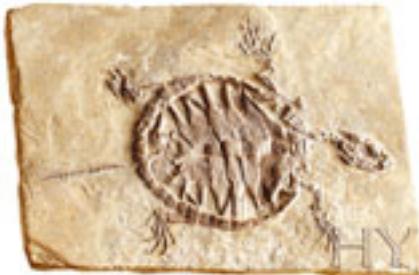
A petrified fossil sea shell dating back millions of years with iron remains that have formed over it

Another fact confirmed by recent findings is that matter constantly seeks the most stable state.

This is the very nature of matter. Therefore, given sufficient time, all matter will eventually turn into iron. Iron is

the most stable state of nuclear matter. In fact, cosmologists predict a stage in which everything we know will turn into iron as a result of nuclear fusion and nuclear fission reactions.⁴ In his book *In Search of Schrödinger's Cat: Quantum Physics And Reality*, the astrophysicist John Gribbon describes how iron is the most desirable state of matter and how all matter in the universe wants to turn into iron.⁵

The revelation in the Qur'an about human remains petrifying and fossilizing leading to an iron-dominant state, is a fact that has now been scientifically confirmed. In the same way that no archaeological, paleontological, geological or astronomical research was possible at the time the Qur'an was revealed, neither was it possible to identify the elements using an electron microscope. Thus, the facts revealed in the verse in Surat al-Isra' once more confirm that the Qur'an is a divine text.



A 125-million-year-old fossil tortoise (left) is identical to the present-day turtle (right).

RADIO RECEIVERS ON MOUNTAINS

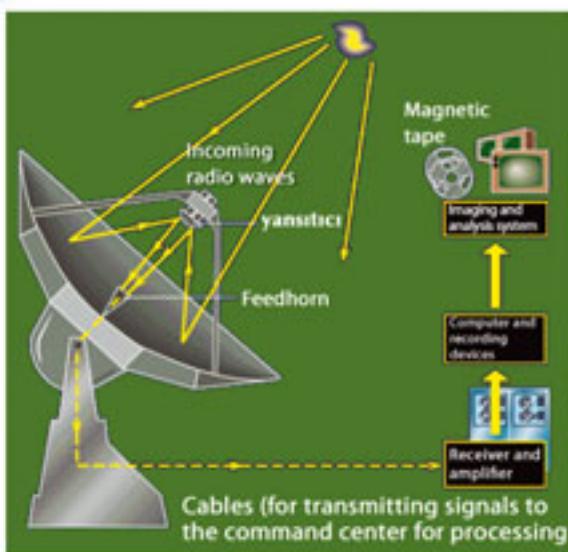
*We gave David great favor from Us: "O mountains and birds!
Echo with him in his praise!" And We made iron malleable
for him: (Surah Saba', 10)*

There is a strong possibility that the description of mountains "echoing" in the above verse may refer to the workings of a modern radio. (Allah knows the truth.) The basic principles on which radios operate may be summarized as follows:

A radio system consists of a transmitter and a receiver. The transmitter takes the message to be sent, encodes it in what is known as a "sine wave" and transmits it in the form of waves through the air. The receiver



takes in the radio waves and deciphers the message sent on the sine wave. In this way, the message is received in exactly the same form as it was sent. The word "awwibee," translated as "echo" in the above verse and meaning "sound being repeated or returned", may very well be a

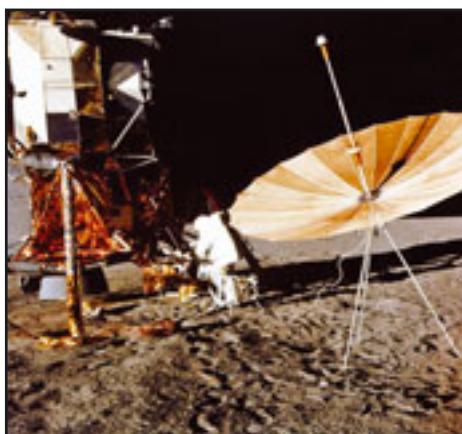


the transmission into space of the waves emitted by the radio transmitter. The receiving antenna is intended to collect as many radio waves and messages as possible. This is why NASA uses giant antennae dishes 70 meters across for its satellites millions of kilometers away in space.

There are also radio telescopes which can use radio waves to form images. Since radio waves are very long, a radio telescope has to be much larger in order to collect them as clear images. In order to obtain sharper and better images, astronomers use a connected series of smaller telescopes or receptors. These telescopes act collectively as one very large device – almost like a team, each with its own role. In

reference to the transmission of these radio waves. (Allah knows the truth.)

Sounds are emitted in the form of sound waves by way of an antenna. This is in order that the receiver can take in the data which has been sent via an antenna linked to the receiver. The purpose behind using antennae is



This NASA photograph shows the Apollo 12's S band antenna.



their physical appearance, these antennae series resemble mountain systems.

In addition, "repeaters" are employed to permit radio communications over great distances. These devices repeat and strengthen weak signals and enable them to be transmitted over considerable distances. Such devices are generally sited on tall buildings or preferably on the tops of mountains, in order to have the greatest effect. The use of the word "*awwabee*," translated as "echo" in the above verse, is exceedingly wise. The statement of, "O mountains and birds! Echo with him in his praise!" in verse 10 of Surah Saba' may be a description of that technology. (Allah knows the truth.)



Each of the antennae in the picture weighs 212 tons, and are as high as a 10-storey building and measure at least 25 meters across.



A radio telescope on Peach Mountain, in Dexter, Michigan

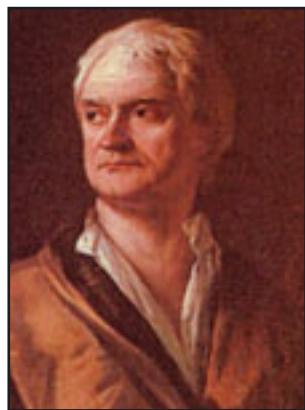
THE EARTH'S GRAVITATIONAL FORCE

*Did We not make the earth a receptacle?
(Surat al-Mursalat, 25)*

The Arabic word "kifatan," translated as "receptacle" in the above verse, means "living things being gathered together and protected in their dwellings." It can also mean "a place where living or inanimate things are gathered together" or "a place on which things are piled or collected." "Kifatan" comes from the root word "kafata," which means "to collect, gather toward one, embrace."

With its gravitational force, the earth pulls human beings and everything else on it - living or inanimate - toward its center. It is very likely that the use of a verb meaning "to pull toward one" refers to this force of gravity. (Allah knows the truth.)

Thanks to the force of gravity that pulls animals, plants, human beings and everything else on Earth toward itself, people are able to walk on the ground, objects can remain where they are without flying off into the air, atmosphere encircles the Earth and rain falls on Earth.



Isaac Newton



Sir Isaac Newton, regarded as one of the greatest scientists ever, investigated this feature of the Earth. During his studies, he made one of the greatest scientific discoveries of all time. He wrote about gravity in his famous book, *Philosophiae Naturalis Principia Mathematica* (The Mathematical Principles of Natural Philosophy), first published in 1687. The Latin word "attraere" Newton used in discussing gravity also means "to attract, bring together."

The reference in the Qur'an to one of the Earth's four great forces, only defined in the 17th century, is just one of the proofs that the Qur'an was sent down from the Presence of Allah.

THE SOLIDITY OF THE ATOM AND ELECTRON ORBITS

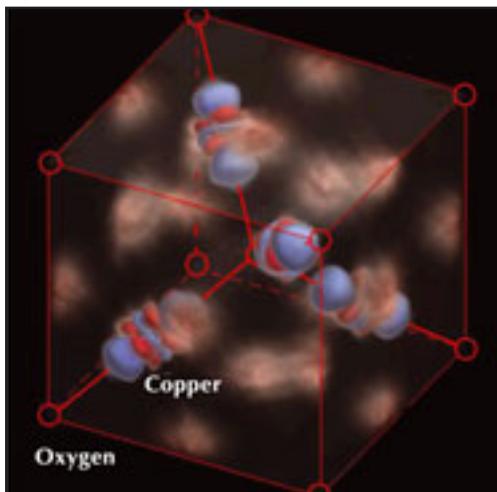
"You will see the mountains you reckoned to be solid going past like clouds—the handwork of Allah Who gives to everything its solidity. He is aware of what you do."

(Surat an-Naml, 88)

One possible interpretation of the above verse is that it may very well be a reference to the strength of the atom, the building block of all matter. It may allude to the orbit of electrons in the atom, which students all over the world are taught about in their daily science lessons. Looked at in the context of atoms, the use of the term "to everything its solidity" can be interpreted as referring to the solidity of the atom, which cannot be broken even if struck with a sledgehammer (Allah knows the truth). That is because objects themselves are not perfectly solid. Only the atom is perfectly solid.

For example, even if a vase is shattered, the atoms that make it up remain solid. A car may turn into a pile of junk after an





The illustration depicts the movement of electrons resembling clouds that constitute matter by joining atoms together, literally like glue.⁶

a delicate flower or a tough piece of metal: the atoms that constitute matter do not fall apart or stray off-orbit. Therefore, even the most fragile-looking piece of matter is actually very solid in its Creation. The wisdom behind the reference to "everything" in the verse may well lie in the fact that the atom is the basis of all matter.

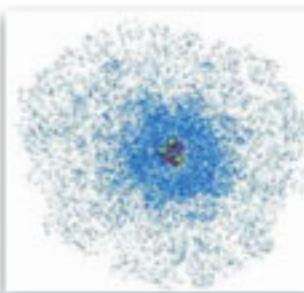
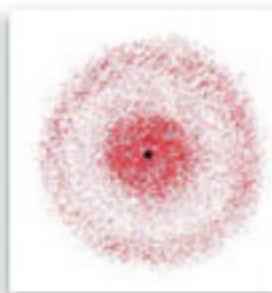
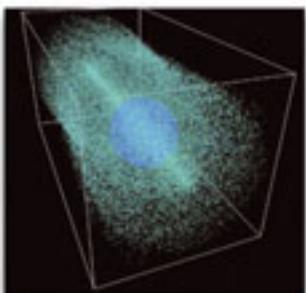
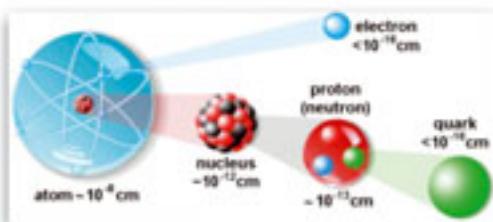
Very solid structures are even to be found in nuclear bombs, which work by splitting atomic bonds. In nuclear fission, the atomic nucleus is split and then divided into two smaller atoms. In the nuclear fusion technique, two small atoms are combined together to make one larger atom. For example, solar energy is manufactured in this way, by hydrogen being turned into helium. As a result, there is a constant cycle from matter to energy and from energy to matter, and there is a general solidity in the universe at the atomic level.

If one examines this verse of the Qur'an further, there may also be reference to the clouds of electrons around atomic nuclei, whose movement is likened to "**mountains... going past like clouds.**" (Allah knows the truth.) The electrons in their orbits, in the atoms, that make up the "mountains" strongly resemble a cloud – this can be said about their ap-

pearance, not to mention their constant and rapid motion around the nucleus. Indeed, the orbiting electrons in the atom are regularly described as an "electron cloud" in contemporary scientific literature.⁷ The concept of an electron cloud is used in molecular physics, chemistry and quantum chemistry to describe the way they move in a manner similar to a cloud around the atomic nucleus.⁸

It is impossible to understand the structure of the atom and establish this cloud-like appearance of electrons without such high-tech devices as electron microscopes. The fact that the information provided fourteen centuries ago in the Qur'an matches the discoveries of advanced, present-day technology is one of the miracles of the Qur'an. It is also a manifestation of our Lord's titles of *Alim* (He Who knows all things), *Fatir* (the Creator) and *Halik* (He Who will see and arrange the existence of all things and Who creates accordingly, He Who creates from nothing).

The rapid movement of electrons around the atom leads to their resembling clouds.



You will see the mountains you reckoned to
be solid going past like clouds – the
handiwork of Allah who gives to everything
its solidity. He is aware of what you do.
(Surat an-Naml, 88)



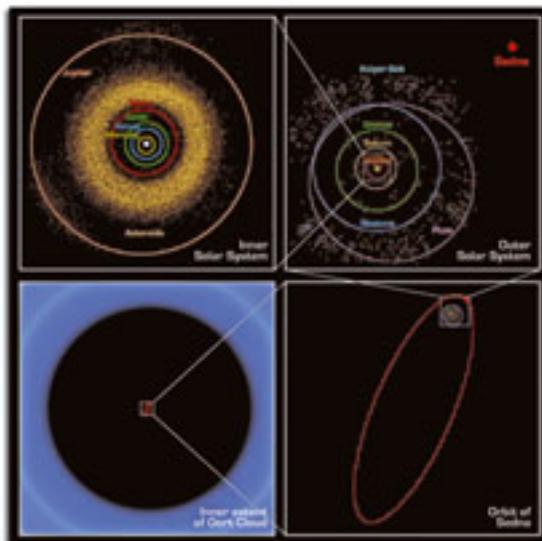
THE SKIES WITH 'WOVEN' ORBITS

"By heaven furnished with paths " (Surat adh-Dhariyat, 7)

The Arabic word "*alhubuki*," translated as "furnished with paths" in the seventh verse of Surat adh-Dhariyat, comes from the verb "*hubuke*," meaning "to weave closely, to knit, to bind together." The use of this word in the verse is particularly wise and represents the current state of scientific knowledge in two aspects.

Firstly, the orbits and paths in the universe are so dense and intertwined that they constitute intersecting paths, just like the threads in a piece of fabric. The Solar System we live in is made up of the Sun, the planets and their satellites – along with heavenly objects such as meteors and comets, which are in constant motion. The Solar System moves through the galaxy known as the Milky Way, which contains 400 billion known stars.⁹ It is estimated that there are billions of galaxies. Miraculously, celestial bodies and systems revolve at speeds of thousands of kilometers an hour. They move through space without colliding with one another when logically, one would think they would collide with each other constantly.

The science of astronomy was developed with the aim of mapping the positions and courses of stars. Meanwhile, the study of astro-mechanics was developed in order to determine the manner in which these complex motions actually work. Astronomers used to as-



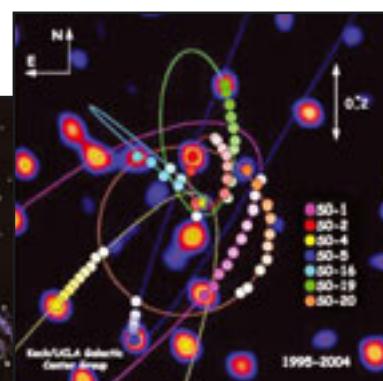
Above left; the orbits of some of the bodies in the Solar System. Based on this picture and looking clockwise, it can be seen that the Solar System itself is part of even greater orbital movements.

sume that orbits were perfectly spherical. The fact is, however, that heavenly bodies are known to follow mathematical shapes, such as spherical, elliptical, parabolic or hyperbolic orbits. Dr. Carlo Rovelli of the University of Pittsburgh says, "Our space in which we live is just this enormously complicated spin network."¹⁰

Secondly, the description of the sky in the Qur'an - using a word meaning



The picture above shows some of the complex movements of stars.

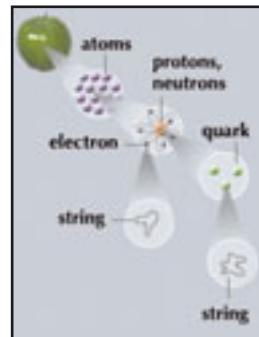
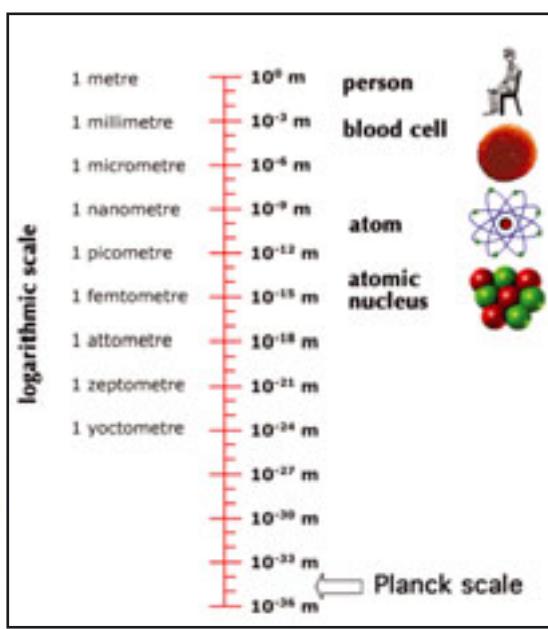


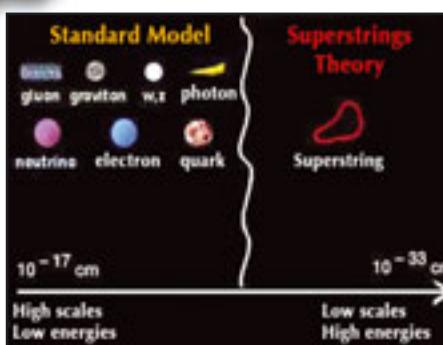
This picture shows the approximately annual movements of just seven stars in the Milky Way.

"woven" - may be a reference to the String Theory of physics. (Allah knows the truth.) According to this theory, the basic elements that comprise the universe are not point-like particles, but strings resembling miniature violin strings. These tiny, identical and one dimensional strings oscillating in the form of filaments are rather like loops in appearance. Modern-day thinkers assume that the origin of all the diversity in the universe lies in the way these "strings" operated at different levels of vibration, in the same way that violin strings produce different sounds with different vibrations depending on how they are plucked.¹¹

Although it is not possible to see the size of the threads in the String Theory, famous theses - such as Einstein's theory of general relativity and his ideas on quantum mechanics – can still be calculated mathematically. These strings, which scientists regard as the material from which space and time are woven, are just 1.6×10^{-35} m (0.00000000000000000000000000000000000000016 meters) in size.¹² This, known as Planck's length, is the smallest known measurement, being just ten to twenty of the protons that make up the

nucleus of that atom.¹³ If an atom were to be magnified to the size of the





Solar System, each one of these strings would be no bigger than an average-sized tree.¹⁴ Also, we must constantly bear in mind that an atom is 100,000 times smaller than the smallest thing that can be seen with the naked eye. It is only when one remembers facts like these can a

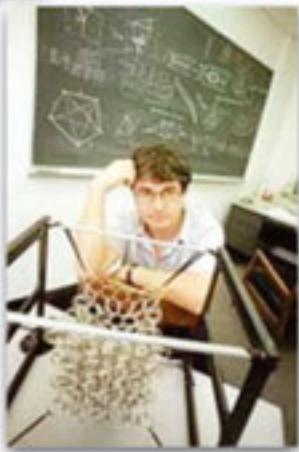
person truly grasps how extraordinary the atomic world really is.

Professor of Physics Abhay Ashtekar from the University of Pennsylvania and Professor of Physics Jerzy Lewandowski from the University of Warsaw interpret the woven appearance of space as follows in an article titled "Space and Time Beyond Einstein":

In this theory, Einstein wove the gravitational field into the very fabric of space and time... The continuum we are all used to is only an approximation. Perhaps the simplest way to visualize these ideas is to look at a piece of fabric. For all practical purposes, it represents a two-dimensional continuum; yet it is really woven by one-dimensional threads. The same is true of the fabric of space-time. It is only because the "quantum threads" which weave this fabric are tightly woven in the region of the universe we inhabit that we perceive a continuum. Upon intersection with a surface, each thread, or polymer excitation, endows it with a tiny "Plank quantum" of area of about 10^{-66} cm². So an area of 100 cm² has about 10^{68} such intersections; because the number is so huge, the intersections are very closely spaced and we have the illusion of a continuum.¹⁵

An Article in the *New York Times* seeking an answer to the question "How Was the Universe Built?" contained the following lines:

Even the tiny quarks that make up protons, neutrons and other particles are too big to feel the bumps that may exist on the Planck scale.



The University of Pittsburgh physicist Carlo Rovelli presents a model woven like a web in order to represent the microscopic architectural structure of the universe.

More recently, though, physicists have suggested that quarks and everything else are made of far tinier objects: superstrings vibrating in 10 dimensions. At the Planck level, the weave of space-time would be as apparent as when the finest Egyptian cotton is viewed under a magnifying glass, exposing the warp and woof.¹⁶

In his book *Three Roads to Quantum Gravity*, the theoretical quantum physicist Lee Smolin devotes one chapter to "How to Weave a String" and says this on the subject:
... Space may be 'woven' from a network of loops... just like a piece of cloth is 'woven' from a network of threads.¹⁷

In his book *Our Cosmic Habitat* the cosmologist and astrophysicist Prof. Martin Rees says:

According to our present concepts, empty space is anything but simple... and on an even tinier scale, it may be a seething tangle of strings.¹⁸

Allah describes the universe as being woven paths and orbits in verse 7 of Surat adh-Dhariyat – and this demonstrates that the Qur'an agrees with modern science. This perfect harmony between the Qur'an and present day scientific developments clearly reveals that the Qur'an is the word of our Lord, the Creator of all. He knows best about all things. Indeed, He asks a pertinent question in one particular verse:

"Will they not ponder the Qur'an? If it had been from other than Allah, they would have found many inconsistencies in it." (Surat an-Nisa', 82)

AERODYNAMIC FORCES AND THE FLIGHT PROGRAMMED IN BIRDS

*Do they not see the birds suspended in mid-air up in the sky?
Nothing holds them there except Allah. There are certainly
signs in that for people who believe. (Surat an-Nahl, 79)*

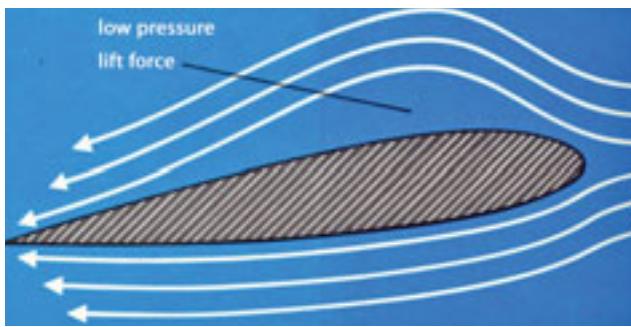
Due to the force of gravity, all bodies which are airborne should eventually fall to earth, either quickly or slowly. Everything, living or otherwise, is subject to the Earth's gravitational pull. But as a miracle of Allah, birds are able to resist this force and fly upward and downward in the air with extraordinary ease and agility. They maneuver in the air, and sometimes even fold their wings and glide through it with effortless grace and dignity. Even the minutest details which scientists have discovered in the bodies of birds - from their beautiful feathers to their powerful lungs, from the arrangement of the general physiology to the shape of their perfect wings - are equipped with special features and a faultless order which enables them to fly. A chick totally unaware of the act of flight and the laws of aerodynamics is born with the ability to fly. The chick launches itself downwards and begins to fly, just as if it knew its body was created for flight. This is not information that is taught subsequently nor is this something that a bird learns by trial and error. Amazingly, a bird knows it has the body structure needed to fly. Without any encouragement, it naturally possesses the courage to launch itself into the air and then

flies without hitting the ground. This can only happen through Allah's inspiration.

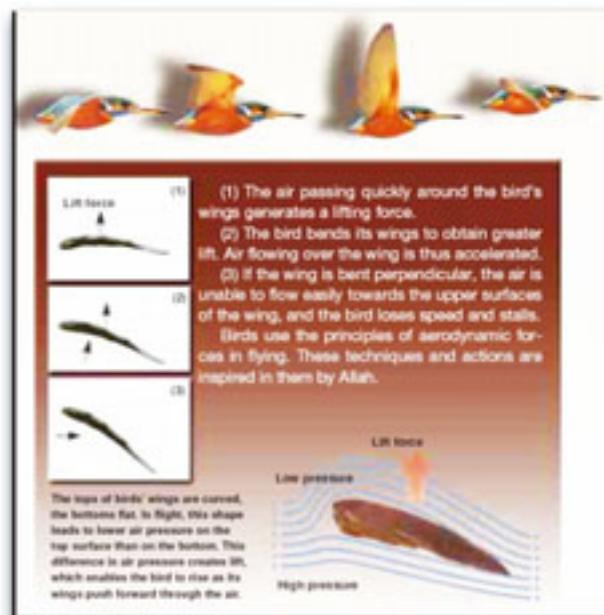
The Arabic word "yumsikuhunna" translated as "holds" in verse 79 of Surat an-Nahl means "not letting them go, taking them, catching them, or holding them." The word is the present tense of the verb "amsaka," meaning "to catch with the hand, hold and pull back." With this word, our Almighty Lord reveals that He holds the bird in the air and that it flies by His command. Bird flight is still the subject of wide-ranging research by scientists. Having observed the perfection of bird flight, scientists use the avian body and avian flight ability as direct models in producing such vehicle as airplanes and jets.

The above-mentioned verse may well be highlighting the manner in which birds comply with the aerodynamic laws created by Allah as they fly. The science of aerodynamics studies the behavior of solid bodies in a fluid environment such as air. For example, as a plane moves through the air, various forces emerge that affect its movement. In order for the plane to move as planned and not to run into any resistance, the plane is thoroughly tested beforehand against the resistance exhibited by the air. Its shape and movement is planned as a result of lengthy calculations, measurements and experiments.

Today, scientists are still astonished at how birds defy gravity with such skill and poise. Using no form of trial and error, they cope with the



The tops of birds' wings are curved, the bottoms are flat. This shape produces lower pressure on the top compared to the bottom. This difference in air pressure produces a lift force that enables the bird to rise in the air by beating its wings upward.



The tops of birds' wings are curved whilst the bottoms are flat. This shape produces lower pressure on the top compared to the bottom. This difference in air pressure produces a lift force that enables the bird to rise in the air by beating its wings upward. (1) The air moving rapidly around the bird's wings produces the lift force. (2) The bird bends its wings in order to obtain greater lift force. The air flowing over the wings is thus accelerated. (3) If it inclines its wings upward at a very steep angle, air cannot easily flow to the upper parts of the wings and the bird loses speed and stalls. Through Allah's Inspiration, birds make use of the principles of aerodynamics as they fly.

laws of aerodynamics in the most perfect manner. The use of the word "musakhkharatin" (suspended) in the verse to describe bird flight is an exceedingly specific choice of language, because it suggests that they have been "encouraged to a specific end, have had to do something, have submitted or bowed their heads, have bound themselves to Allah or have submitted to His laws". This is the implication contained in the word itself. In that way, the verse may be indicating the manner in which aerodynamic laws have a determining influence on bird flight. (Allah knows the truth.)



The illustration shows the main forces acting on a bird during flight.

At first sight, there would appear to be nothing to make it difficult for birds to fly. But according to the laws of aerodynamics, any object flying in the air is subject to various different forces. The best-known of these are gravity, propulsion, drag and lift. In order for any meaningful flight to take place, these forces have to be balanced perfectly. The slightest imbalance in a bird would cause it to come crashing down to earth each

time it tried to fly. For example, if gravity is stronger than the other forces, the bird will fall to earth. That is why the word in the verse is the best possible expression of the situation which we are examining here. The presence in the Qur'an of expressions containing such information at a time when no science of aerodynamics or mechanics existed, once again, reveals that the Qur'an is a divine text.

In addition to the aerodynamic perfection in bird flight, scientists are also researching the migration patterns of thousands of kilometers that they make. Ornithologists have today concluded that these are literally programmed in them. The way that young birds are able to undertake long and arduous journeys with no guide or previous experience is the most obvious example of this. The Arabic word "musakhkharatin" in the verse quoted above implies "being encouraged toward a specific target, being taken under command, being taken under submission," clearly revealing that birds obey the instructions they are given when following the directions set out for them. There is no possibility of birds, which are devoid of intellect and consciousness, managing to make their own calculations as they fly. Scientists today are in agreement that these extraordinary abilities in birds are "pre-programmed" in them. This is set out in an article in the journal *Science*:

There is good evidence that young birds are equipped with endogenous migratory programs, which tell them roughly **how many days and/or nights that they must fly, and in what direction.**¹⁹ (*emphasis added*)

In his book *La Puissance et la Fragilité*, Pierre Jean Hamburger from René Descartes University describes the extraordinary 24,000-kilometer journey made by the shearwater that lives in the Pacific Ocean:

It sets out from the coast of Australia. From there it flies straight southward to the Pacific. Then it turns north and flies along the coast of Japan until reaching the Bering Sea where it can rest for a while. Following that break it sets off again, and this time heads south.



The air moving rapidly around the bird's wings produces the lift force. The bird bends its wings in order to obtain greater lift force. The air flowing over the wings is thus accelerated. If it inclines its wings upward at a very steep angle, air cannot easily flow to the upper parts of the wings and the bird loses speed and stalls. Through Allah's inspiration, birds make use of the principles of aerodynamics as they fly.

Crossing the western coast of America, it arrives in California. It then crosses the Pacific to return to its starting point. **The route and timing of this 15,000-mile (24,000-kilometer) figure '8' journey it makes every year never change.** The journey in question lasts a whole six months, always coming to an end in the third week of September on the island it left six months before, at the nest it left six months before. What comes next is even more astonishing; after their return, the birds clean their nests, mate, and lay a single egg over the last 10 days of October. The chicks hatch out two months later, grow very fast and are cared for over three months until their parents set out on that stupendous journey. Two weeks later; around the middle of April, it is time for the young birds to take wing on their own journey. **They follow exactly the same route as that described above, with no guide.** The explanation is so obvious: **These birds must have all the directions for such a journey within the inherited characteristics passed on within the egg.** Some people may claim that birds navigate by the Sun and stars or follow the winds prevailing along their route on this journey out and back. But it is clear that these factors cannot determine the journey's geographical and chronological accuracy.²⁰ (*emphasis added*)

Professor Peter Berthold, a famous ornithologist who has investigated bird migration for 20 years and president of the Max Planck Institute Ornithological Research Center, says the following about bird migration:

Every year an estimated 50 billion birds make migratory journeys, along a network of routes that encompasses the whole world. Sometimes travelling tens of thousands of kilometers, crossing continents and oceans, migratory birds have become so well adapted to this task that they can traverse the largest deserts and seas, the highest mountains and expanses of ice... **migratory birds have comprehensive, detailed, innate spatio-temporal programs for successful migration. Such programs evidently enable even young, inexperienced birds to migrate alone, with no adult guide, to the**

species- or population-specific winter quarters that they have never seen before. As will be explained further below, they do this by "vector" navigation: referring to a vector composed of a genetically predetermined migratory direction and to a time-plan, also genetically predetermined, for the course of migration... It follows that the departure time is programmed by genetic factors... But how do birds "know" the direction in which to migrate, so that they will reach their specific winter quarters? Here, again data have been obtained that point to direct genetic control mechanisms. It has long been suspected that migration directions are innate... when displaced from the normal starting point, and still more crucially, when tested in orientation cages, migratory birds showed directional preferences practically identical to the normal ones, even if they had never migrated before. Now a number of experiments have provided evidence of the genetic determination of migration direction... Even these directional changes are evidently programmed endogenously to a great extent... With an innate pattern of migratory activity, the birds possess a genetically determined migration schedule. In combination with genetically determined migratory directions, as mentioned above, it guides even inexperienced individuals, migrating for the first time, "automatically" to their previously unknown winter quarters (vector navigation, using a vector composed of a time- and a direction-plan).²¹ (*emphasis added*)

In conclusion, although scientists are unable to fully account for it, they still agree that migration is pre-programmed behavior that birds possess from birth. Journeys lasting thousands of kilometers, the preparations made for these flights and birds' ability to find their way and navigate during flight all take place by our Lord's choosing, as expressed in the above verse. The accuracy of all the information provided in the Qur'an is important evidence

that this information has all been revealed by Allah.



THE MIRACLE OF FIRE AND WOOD, THAT CANNOT BE OBTAINED ARTIFICIALLY

Have you thought about the fire that you light? Is it you who make the trees that fuel it grow or are We the Grower? We have made it to be a reminder and a comfort for travelers in the wild. So glorify the name of your Lord, the Magnificent!

(Surat al-Waqi 'a, 71-74)

One of the chemical substances mainly responsible for the structure of wood is "lignocellulose." This substance is a compound of the materials known as "lignin" and "cellulose" that give wood its hardness. In terms of chemical structure, wood is made up of 50% cellulose, 25% hemicelluloses and 25% lignin.²² An analysis of these substances' chemical formulae reveals three vital elements: hydrogen, oxygen and carbon.

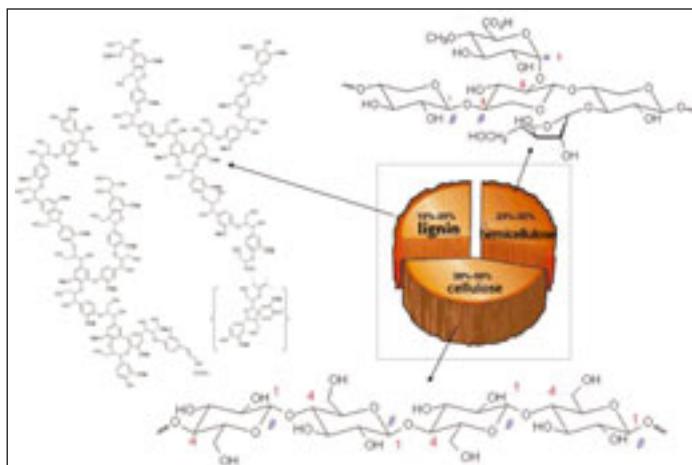
Hydrogen, oxygen and carbon are the building blocks of millions of substances in nature. But as a miracle from Allah, these three also combine to give rise to the substance "lignocellulose", which is found in plants. Although scientists know that hydrogen, oxygen and carbon are the ingredients of lignocellulose, some of the greatest minds in the world have been completely unable to reproduce this special material in plants. Although these elements can easily be obtained, scientists have been unable to create a single piece of wood by artificial means, despite having countless examples before them to study. Yet all the trees we see

around us have been ceaselessly producing this compound for millions of years by combining oxygen, carbon, water and sunlight.

One of the compounds in lignocellulose is water, expressed by the formula H₂O. Despite containing a large amount of water in its make-up, wood is still somehow one of the most flammable materials in nature. The above verse is very wise in noting that wood cannot be made by human beings. By means of these compounds and the water it contains, wood is one of the most important fuels of fire.

Trees are an important sphere of scientific research. Scientists are still struggling to grasp all the details in their Creation. The complex structures of the cells that constitute trees have still not been fully unraveled, despite advances in technology and intensive research. The Forestry Commission of Great Britain, one of the world's leading forestry research institutions, says the following under the heading "Lack of Information on the Chemistry and Structure of Wood Fibres":

Despite the knowledge resulting from earlier and ongoing research, there still exists a lack of information on the chemistry and structure of wood fibres. Large variations can be found within a single tree, from the pith to the bark and from the base to the top of a tree. Often



An examination of the chemical structure of wood shows it consists of 50% cellulose, 25% hemicellulose and 25% lignin.

the chemistry and structure of a wood cell are extremely heterogeneous and difficult to investigate with conventional techniques.²³

A paper in the scientific journal *Plant Physiology* titled "Our Understanding of How Wood Develops is not Complete" describes the limited knowledge of the subject that scientists possess:

Considering the important role that wood is foreseen to play in the near future, it is surprising to see that our understanding of how wood develops is far from complete. With a few exceptions, very lit-



tle is known about the cellular, molecular, and developmental processes that underlie wood formation. Xylogenesis represents an example of cell differentiation in an exceptionally complex form. This process is controlled by a wide variety of factors both exogenous (photoperiod and temperature) and endogenous (phytohormones) and by interaction between them. It is driven by the co-ordinated expression of numerous structural genes (some of known function) involved in cell origination, differentiation, programmed cell death, and heartwood (HW) formation and by virtually unknown regulatory genes orchestrating this ordered developmental sequence. The presence of gene families and the extreme plasticity of the metabolism involved (as exemplified by the unusual behavior of plants with transformed cell walls; for review, see Fagard et al., 2000) add a further complexity to our understanding of the process of wood formation.²⁴

The extraordinary Creation in wood is emphasized thus in another scientific journal, *Annals of Botany*:

Wood formation is a highly complicated process involving an unbelievable variety of metabolic steps in the roots, stem and crown of shrubs and trees. At the centre of these processes is cambial activity which results in the release of young woody cells that undergo maturation until autolysis of the protoplast, indicating the final developmental stage. Later on, in various tree species, woody cells become further modified by an additional process called heartwood formation. The properties of wood that make it an appropriate raw material for many purposes are largely determined by the specific architecture of the cell walls. Difficulties in investigating these many developmental stages appear when routine techniques, which work well for soft plant tissues, are applied. Therefore, in most cases, these techniques need modification or the use of completely revised protocols to yield good results for woody tissues.²⁵

These details in the Creation of wood remind us, as set out in Surat al-Waqi'a, that wood cannot be made by human beings. Just a few of the inimitable features of wood, which cannot be produced artificially, are as follows:

Wood, a Resistant Material

The hard and resistant nature of wood is the result of the cellulose fibers it contains. Cellulose is exceptionally hard and is insoluble in water. It is this property of cellulose that makes the use of wood in construction so advantageous. Cellulose, described as a "contractile and incomparable substance," has been used for centuries in the construction of buildings, bridges and many other structures.

Wood consists of parallel columns made up of convex cells laid end to end. These are surrounded by cellulose fibers in spiral form. In addition, these cells are contained in "lignin," a substance made from a complex, polymer structure resin. These spirally-enclosed layers make up 80% of the thickness of the cell wall and bears most of the load there is to bear. When a wood cell collapses internally, it absorbs the shock of a blow

by detaching itself from the surrounding cells. Even when such collapses causes a crack along the length of the fiber, the wood remains remarkably unharmed. That is why wood is strong enough to bear specific loads even if it is broken.

In addition, wood is also able to absorb the



The Mosquito, one of the aircraft most tolerant of damage, was made of laminated plywood.

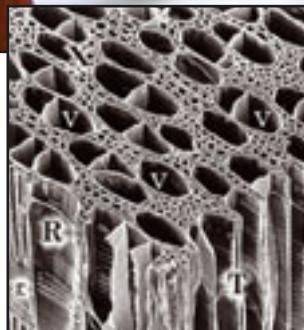
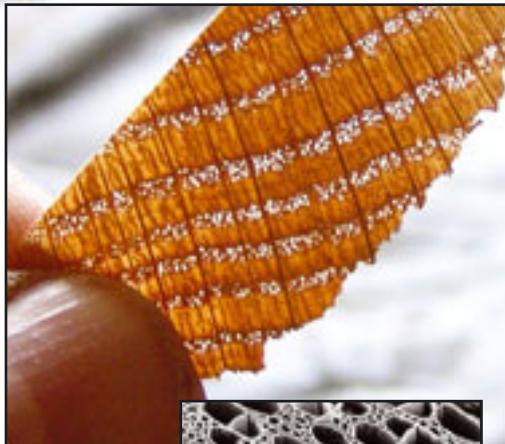
energy of low-speed blows. World War Two era fighter plane known as the "Mosquito" was made by compressing wood between strips of fiber board, making it the most damage-resistant plane of its time. The rigid, resistant nature of wood make it a very reliable material because wood breaks or cracks slowly enough to be visible from the outside, thus giving people enough time to take the necessary precautions.²⁶

A material based on the structure of wood can be up to fifty times more resistant than other synthetic materials currently in use.²⁷ Today, these unique properties of wood are used against high speed impacts and destructive fragments such as bombs and bullets. Yet scientists have not been able, despite their staunchest efforts, to come even close to replicating a piece of wood with all its many attributes. Every detail in the Creation of wood, - the thickness of the internal layers, their level of compression, the number of vessels, their layout and the materials inside it, have been specially created to result in that resistance.

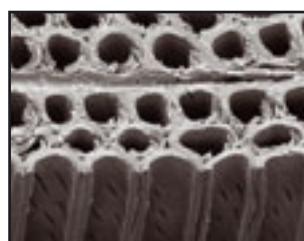
The Hydraulic System That Raises Water Many Meters against the Force of Gravity

The dead part of wood, known as the "xylem," contains hollow channels. These, also known as "wood vessels," consist of inanimate cells that gradually lose their nuclei and cytoplasm, and which are piled one on top of the other. Long, thin wood vessels form when the membranes between the cells dissolve and disappear.

Roots spreading out beneath the soil carry the water and minerals the plant needs upward through these tissues. The water is then transmitted as far as the leaves. The way the roots absorb the water in the ground is reminiscent of the "test bore technique". The roots themselves have no engines to initiate the water absorption process; neither do they have any technical equipment with which to pump water and minerals for distances of up to several meters. But the roots absorb the water present in the depths of the soil by spreading over a very wide area.



As seen in the picture to the left, wood consists of tube or straw-shaped cells. By combining one on top of the other, these cells, which make up the roots and trunks of plants, serve as channels that carry water and minerals right through the plant. This tissue, known as "xylem," also constitutes a powerful structure that enables the plant to remain upright. To the right, we can see a slice of dry wood in cross-section. When dried out, the tube-like channels become hollow, as shown in the illustration.²⁸



This lifting process that the plant performs so flawlessly is an exceedingly complex one. Yet this system has still not yet been fully understood, even in these days of high technology and space travel. The presence of a "hydraulic system" in plants was determined some two centuries ago, but we still do not know how this action in defiance of the force of gravity takes place. The superior technology squeezed into such a confined space is just one of the examples demonstrating the incomparable knowledge of our Lord, the Creator of the system. Like everything in the universe, Almighty Allah created the transportation system in trees.

As seen in the picture above, wood consists of tubular or straw-shaped cells. By combining one on top of the other, these cells, which make up the roots and trunks of plants, serve as channels that

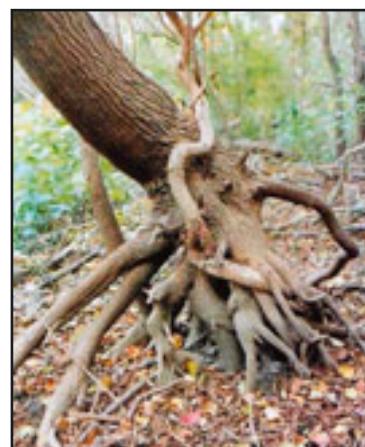
carry water and minerals throughout the plant. This tissue, known as "xylem," also constitutes a powerful structure that enables the plant to remain upright. To the right, we can see a slice of dry wood in cross-section. When dried out, the tube-like channels become hollow, as shown in the illustration.

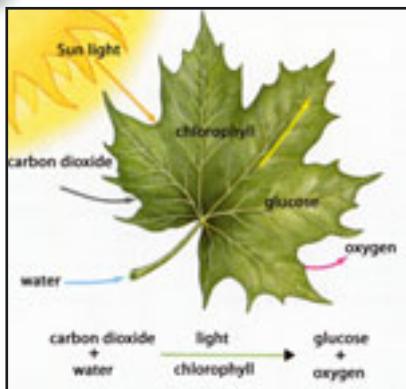
Roots Capable of Selecting Minerals from the Soil

Plants draw all the mineral nutrients they need from the soil; this includes potassium, phosphorus, calcium, magnesium and sulfur. Since the substances are not found separately in the soil, they absorb them as ions (positively or negatively charged atoms). Of all the many inorganic ions in dissolved state in the soil, plants absorb only the fourteen they need.

The iron concentration inside plant cells is 1,000 times greater than that in the soil outside.²⁹ Under normal condition, an exchange of matter from a high density region to a lower density one will take place. But exactly the opposite happens in plant roots, and the ions in the soil are easily able to pass into the root cells.³⁰

Because of this state of affairs that operates contrary to the pressure system, the plant uses a high level of energy in the pumping process. In addition, in the plant roots' taking up ions from the soil, there needs to be an identification system that attracts only the wanted ions and repels the unwanted ones. This shows that the ion pumps in the root cells are no ordinary pumps, but possess the ability to select between ions. Bearing in mind that the cell in the plant roots are made up of atoms devoid of any intelligence or consciousness, we must all surely acknowledge what an extraordinary process ion selection truly is.



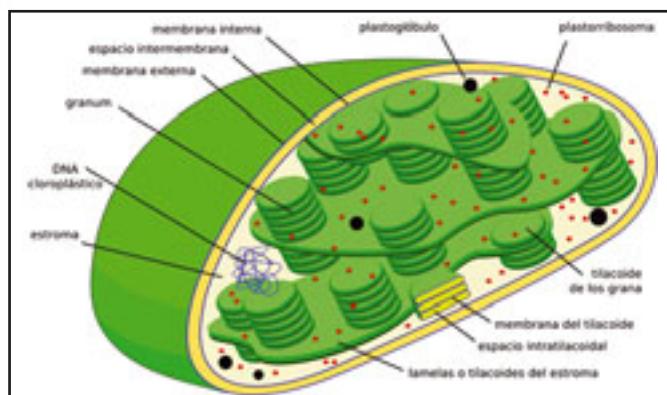


During photosynthesis, whereby plants manufacture their own nutrients, they use the energy arriving from the Sun. Plants convert this into food as the result of a number of complex chemical processes. This sublime Creation in plants is one of the matchless examples of Allah's creative artistry.

Photosynthesis: The Superior Technology in a Miniature Factory

Whilst you may think that it is rare for a material to be as elusive to scientists as wood is, leaves tell a similar story. Leaves play a part in one of nature's most important processes - photosynthesis. Photosynthesis, one of the systems that scientists still do not fully understand, may be summarized as plants manufacturing their own nutrients. Because of the delicate but perfect structure contained within plant cells, plants are able to store solar energy. At the end of various complex processes, this energy takes on a form which can readily be used by human beings as well as animals. In addition, the photosynthetic energy stored in trees is also emanated during burning. For example, the energy emitted by wood when burned to heat a house is actually energy from the Sun stored during the formation of wood.³¹

The photosynthesis system, which operates like a miniature factory, takes place in an organelle known as the "chloroplast" inside the plant cell. This is where it gets its distinctive green color from. Chloroplasts are just one-thousandth of a millimeter in size, for which reason they can only be seen under a microscope. When solar energy falls on the leaf, they transmit it to the layers inside it. Chlorophyll inside the chloroplasts in the leaf cells convert this light energy into chemical energy. The plant obtaining this chemical energy immediately uses it to obtain



The chloroplast shown magnified in the illustration above is in fact just one-thousandth of a millimeter in size. It contains many organelles that assist with the process of photosynthesis. Photosynthesis, which takes place in many stages, not all of which are yet understood, takes place at high speed in these microscopic factories.

nutrients. It took scientists until the mid-20th century to obtain this information - summarized in just a few lines here. Pages of chain reactions were written to describe the whole process of photosynthesis. But some links in the chain are still a mystery to scientists. Yet, plants have been performing these processes uninterruptedly for hundreds of millions of years, thus providing the earth with food and oxygen.

The chloroplast shown magnified in the illustration above is in fact just one-thousandth of a millimeter in size. It contains many organelles that assist with the process of photosynthesis. Photosynthesis, which takes place in many stages, not all of which are yet fully understood, takes place at high speed in these microscopic factories.

Here, we must take a moment to remind ourselves of the following: not a single cell constituting wood can be made by artificial means, and human beings' helplessness in the face of dead wood cells, shows the presence of a sublime Creator. The properties of wood, about which many volumes could be written, reveal the perfection in Allah's Creation. The countless qualities which wood is synonymous with inspires scientists to research its make-up yet despite extensive efforts, there is still much that is not known about the true nature of wood. Allah's Sublime Knowledge and intellect is the only possible explanation behind wood.

A RED ROSE IN THE SKY: THE ROSETTE NEBULA

*When the Heaven shall be cleft asunder, and become rose red,
like stained leather. (Surat ar-Rahman, 37)*

The Arabic expression translated above as "**become rose red, like stained leather**" is "*wardatan kaalddihani*." This term compares an image appearing in the sky to a red rose. This description bears a close similarity to red celestial bodies with a crumpled appearance, especially the "Rosette Nebula."

Nebula is the name given to cloud-like masses of gas in space. Before they become nebulae, they are stars - and since these stars are very large, they release gasses into space because of their high internal pressure and temperatures. These eruptions of gas are very large and fast. These gasses then coalesce to form a gas cloud, with a temperature of more than 15,000 °C.³²

One type of nebula is known as the "Rosette Nebula" because of its close resemblance to a rose. The Rosette Nebula is also a vast cloud of gas and seems to have an area five times greater than that of the full moon.³³ Its true diameter is estimated at 130 light years.³⁴

A team led by Leisa Townsley, a senior Penn State University researcher in the field of astronomy and astrophysics, examined the Rosette Nebula using the renowned Chandra X-ray telescope. They im-



aged hundreds of stars in the Rosette Nebula and determined that by crashing into one another, stars produce gas at temperatures of six million degrees. Townsley describes what she saw:

A ghostly glow of diffuse X ray emission pervades the Rosette Nebula and perhaps many other star-forming regions throughout the Galaxy. We now have a new view of the engine lighting the beautiful Rosette Nebula and new evidence for how the interstellar medium may be energized.³⁵

The existence of this body seen in the illustrations can only be confirmed by high-tech observation equipment. This state of affairs regarding the skies noted in the Qur'an is in great agreement with the findings of present-day astronomy. In one verse of the Qur'an, we are told:

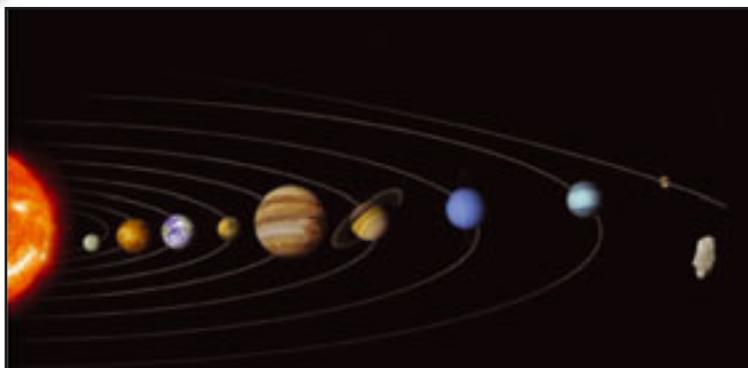
You do not engage in any matter or recite any of the Qur'an or do any action without Our witnessing you while you are occupied with it. Not even the smallest speck eludes your Lord, either on earth or in heaven. Nor is there anything smaller than that, or larger, which is not in a Clear Book. (Surah Yunus, 61)

THE HELIOCENTRIC SYSTEM

He created the heavens and the earth with truth. He wraps the night around the day and wraps the day around the night, and has made the Sun and Moon subservient, each one running for a specified term. Is He not indeed the Almighty, the Endlessly Forgiving? (Surat az-Zumar, 5)

In the above verse, the movement of the Earth is described by the word "*yukawwiru*," which comes from root verb "*takwir*." This means "to cover up a spherical body," in the way that the rotation of the Earth gives rise to night and day, like the winding of a turban around the head of a man. In addition to the spherical shape of the Earth, the word is also the most accurate expression of its movement around the Sun. Because of the Earth's spherical shape and its movement around the Sun, the Sun always illuminates one side of the Earth while the other is in darkness. The side in shadow is shrouded by the darkness of night, only to be replaced seamlessly by the brightness of day when the Sun rises. The positions of the Sun and Earth are revealed as follows in Surah Ya Sin:

And the Sun runs to its resting place. That is the decree of the Almighty, the All-Knowing. And We have decreed set phases for the Moon, until it ends up looking like an old palm spathe. It is not for the Sun to overtake the Moon nor for the night to outstrip the day; each one is swimming in a sphere. (Surah Ya Sin, 38-40)

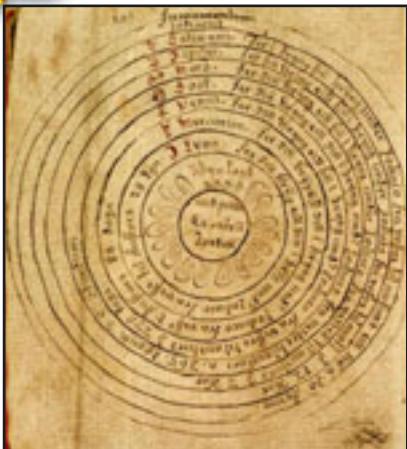


Like the Earth, other planets in the Solar System follow specific orbits.

The movements of the Sun and Moon in the final verse of this excerpt are described by the Arabic word "*yasbahoona*," meaning "flowing, passing or swimming." This word refers to an action performed by someone without any help from others. Someone acting according to this verb continues to perform it alone, with no intervention from anyone else. The above verses may therefore be referring to the Sun's independent movement in the universe, independent of any other celestial body. (Allah knows the truth.) It is impossible for us to see or follow the movement of the Sun with our own eyes. In reality, the true nature of its existence is beyond us. It is only possible to determine that movement using special technological equipment. As stated in verse 39 of Surah Ya Sin, in addition to rotating around its own axis once every 26 days, the Sun also moves through its own course.

It is also reported in the verse that the Sun is not allowed to "**over-take the Moon**", and it stated in the Qur'an that the Sun and Moon do not revolve around the same body, as astronomers put it. At the same time, it is made clear in the verse that there is no connection between the motion responsible for night and day and the movement of the Sun and Moon. (Allah knows the truth.)

Until the 16th century, it was thought that the Earth was the center of the universe. This view is known as the "geocentric mod-

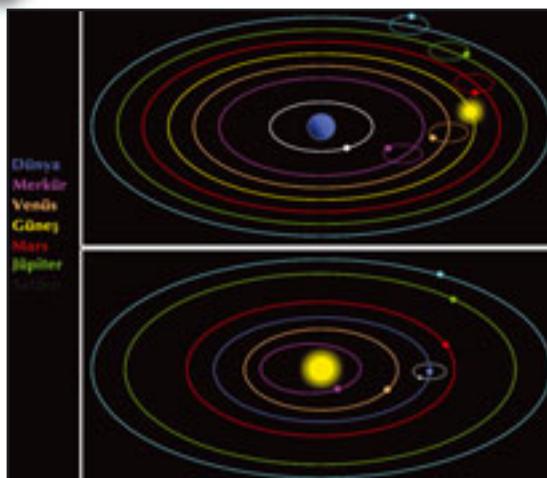


The above manuscript dating from the 1750s shows the geo-centric (Earth-centered) model of the universe. It took many years for this to be abandoned and replaced by the helio-centric model.

el," from the Greek words *geo* (Earth) and *kentron* (center). This belief was questioned by the famous astronomer Nicolaus Copernicus in 1543 in his book *De Revolutionibus Orbium Coelestium* (Of the Revolutions of Heavenly Spheres), in which he suggested that the Earth and the other planets revolve around the Sun. As a result of observations using a telescope performed by Galileo Galilei in 1610, it was scientifically established that the Earth revolves around the Sun. Up until this point, it had been widely accepted that the

Sun revolved around the Earth – so most scholars of the time stubbornly rejected Copernicus' theory. The famous astronomer Johannes Kepler's views setting out the movements of the planets confirmed the heliocentric model in the 16th and 17th centuries. In this model, whose name comes from the words *Helios* (Sun) and *kentron* (center), the Sun is the center of the universe, rather than the Earth. Other heavenly bodies also revolve around the Sun. Yet this was all revealed 1400 years ago in the Qur'an.

By saying that the Earth was the center of the universe, the ancient Greek astronomer Ptolemy was responsible for the geocentric idea of the universe that dominated scientific thought for hundreds of years. For that reason, at the time of the revelation of the Qur'an, nobody knew that the Earth-centered model was incorrect. The information in the Qur'an refutes the thesis that the Earth is fixed while the Sun revolves around it. It was believed that the stars and planets revolved around the



The model below is the helio-centric (solar-centered) one that has been proved today, while the model on top is the geo-centric (Earth-centered) model that was thought to be true for many hundreds of years.

Earth. Despite these prevalent errors of the time, the Qur'an contains information which was not known, or even considered, at that time. Many expressions in the Qur'an on this matter agree with the scientific facts regarding day and night:

By the Sun and its morning brightness, and the Moon when it follows it, and the day when it displays it, and the night when it conceals it. (Surat ash-Shams, 1-4)

As set out in the above verse, day – which is essentially the brightness of the Sun – results from the movement of the Earth. Our planet spins on its own axis. It is not the movement of the Sun that is responsible for night and day. In other words, the Sun is immobile in terms of night and day. The Qur'an is clearly descended from the presence of our Lord. As science and technology advance more and more, examples of the compatibility between the Qur'an and science are coming to light. This is set out in another verse from the Qur'an:

There is instruction in their stories for people of intelligence. This is not a narration which has been invented but confirmation of all that came before, a clarification of everything, and a guidance and a mercy for people who believe. (Surah Yusuf, 111)

QUASARS AND THE GRAVITATIONAL LENS EFFECT

Allah is the Light of the heavens and the earth. The metaphor of His Light is that of a niche in which is a lamp, the lamp inside a glass, the glass like a brilliant star, lit from a blessed tree, an olive, neither of the east nor of the west, its oil all but giving off light even if no fire touches it. Light upon Light. Allah guides to His Light whoever He wills and Allah makes metaphors for mankind and Allah has knowledge of all things.

(Surah an-Nur, 35)

Quasar is the name given to the extremely dense and bright bodies that look like stars and emit radio waves in space. Quasars are acknowledged as the brightest celestial bodies in the universe. The brightness of the brightest quasars in the universe is more than two trillion times greater than that of the Sun (2×10^{12}) – this is approximately 100 times greater than the total light emitted by a galaxy such as the Milky Way.³⁶

The word "noor" (nur) in the verse means "light, brightness, daylight, shining, illumination." The light referred to in the verse is suggestive, in terms of its brightness, of these celestial bodies known as quasars. Here, the visibility of quasar light and the source of that light seems to be the reason for this intricate description. (Allah knows the truth.)

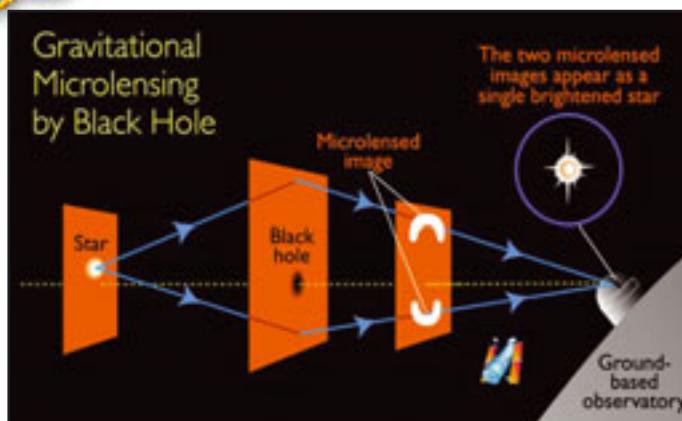
The word "duriyyun" meaning "bright" in the expression "kaannaha kawkabun durriyyun" in the verse, itself meaning "like a bril-



NASA's Hubble Space Telescope caught a single quasar in space producing images of five separate stars for the very first time. Bodies with a high density –a group of galaxies here– produce more than one image by giving rise to the gravitational lens effect, bending the light from objects behind them, in this case quasars.

"**liant star,"** is highly compatible with the scientific description of quasars as "bright, stellar bodies".³⁷ In addition, it is mentioned of "**giving off light even if no fire touches it.**" It is probable that this is a reference to the way quasars burn without fire, ie., nuclear fusion. Since oxygen is not naturally present in space, there can be no question of the burning of the brightness of quasars having anything to do with fire. The burning taking place here does so as hydrogen atoms are compressed and produce helium. The energy released during this process then illuminates space.

The expression "**light upon light**" in the verse may well



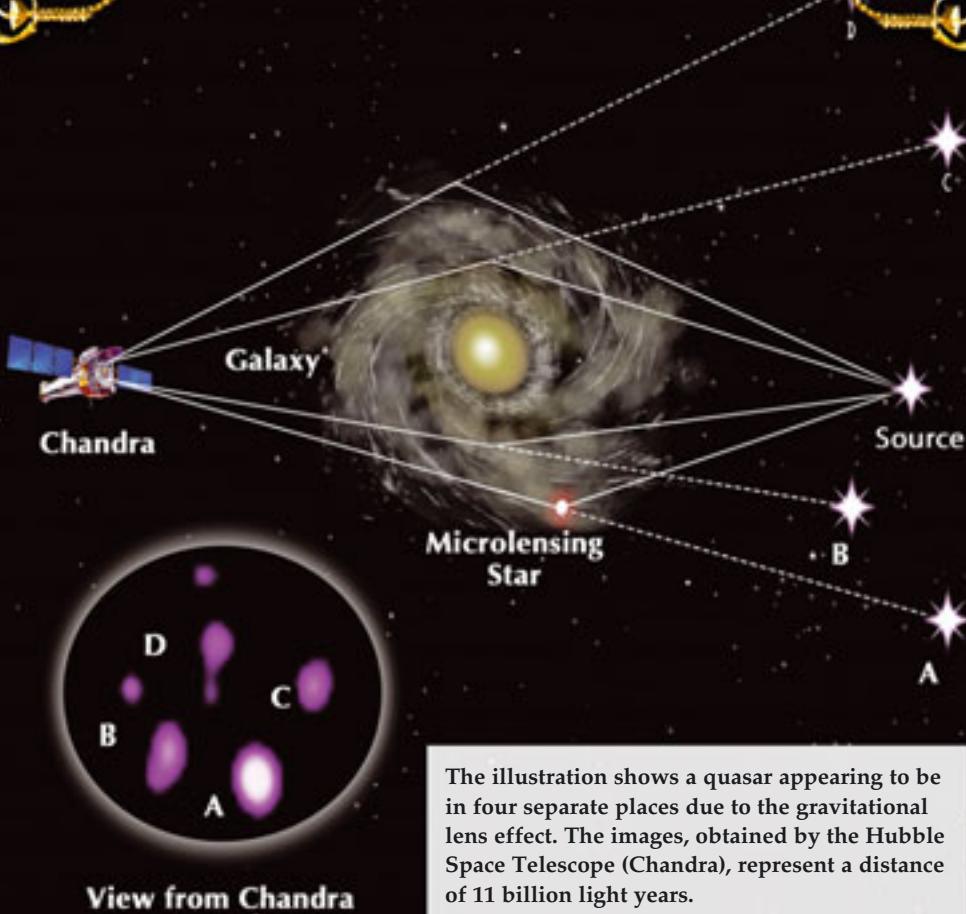
be a reference to the "gravitational lens effect" in astronomy. (Allah knows the truth.) Many astronomers investigating sources of light in the universe will easily understand this description. It seems to be a reference to the way light from a source behind a body with a very dense mass, such as a black hole, departs under the effect of that dense body. Thus, it reaches us from different angles. It appears that there is therefore more than one source of light for the images that we see. Due to this "gravitational lens effect," an object appears to be somewhere different to where it actually is, and in greater numbers.

The term "**a niche in which is a lamp**"—known as "the light verse"—may allude to the area of gravitational lens effect of a black hole. (Allah knows the truth.) It is significant that in describing the effect that arises, NASA scientists use the analogy of the effect of a drinking glass:

The gravitational effect of the galaxy on the distant quasar was similar to the lens effect of a drinking glass on a distant street light—it created multiple images.³⁸

In his book *The Whole Shebang*, regarded as one of the leading books of the 20th century by the *New York Times*, the science writer Timothy Ferris clarifies the subject as follows:

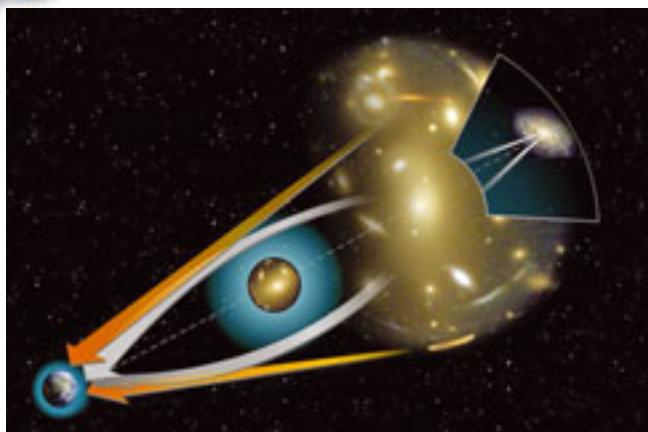
As light from a quasar travels towards us... it may pass



The illustration shows a quasar appearing to be in four separate places due to the gravitational lens effect. The images, obtained by the Hubble Space Telescope (Chandra), represent a distance of 11 billion light years.

through either side of an intervening cluster of galaxies. The warped space surrounding the cluster can act as a lens, with a result that we see two images of what is (or was) actually one quasar.³⁹

The reference in the verse to "light upon light" may be a description of reflected light forming more than one image. In addition, the term "**neither of the east nor of the west**" in the verse is in all likelihood a reference to the uncertainty of the light's source. (Allah knows the truth.)



Gravitational lens effect

Quasars are the brightest known objects in the universe. They are also the nuclei of growing galaxies with black holes in their center. Black holes arise as the result of the contraction of stars and gasses belonging to galaxies.⁴⁰ They are the source of quasar energy. A quasar's brightness is spread by stars falling into the black holes at the centers of galaxies. Thinking of the "lamp" in the verse as a quasar, the "niche" may well be a reference to the black hole that feeds the quasar. (Allah knows the truth.)

Einstein suggested that due to the effect described as the "gravitational lens," bodies in space could bend light and that it was possible for an observer to see several images from one single source.⁴¹ However, this effect was only observed for the first time in the quasar known as the "Twin Quasar" in 1979. Quasars were first discovered in 1963, some fourteen centuries after the revelation of the Qur'an. The status of the heavenly bodies described in the 35th verse of Surat an-Nur is in total agreement with current scientific thinking. This, along with a many other scientific miracles, confirm that the only possible source of the Qur'an is our Omniscient Lord, the Creator of all things.

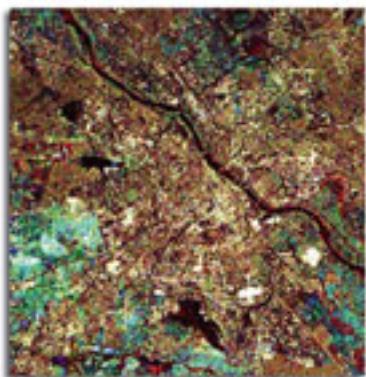
PRESENT-DAY RADAR TECHNOLOGY

We gave David great favor from Us: 'O mountains and birds! Echo with him in his praise!' And We made iron malleable for him: (Surah Saba', 10)

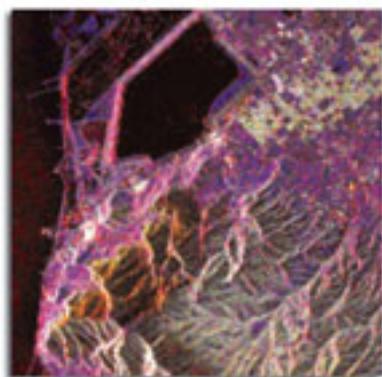
We gave Solomon understanding of it. We gave each of them judgment and knowledge. We subjected the mountains to David, glorifying, and the birds as well. This is something We are well able to do. (Surat al-Anbiya', 79)

So We subjected the wind to him to blow at his command, softly, wherever he directed. (Surah Sâd, 36)

The above verses refer to the superior attributes bestowed on the Prophets David (as) and Solomon (as), and inform us that each was given knowledge from the Presence of Allah. The words chosen may refer to present-day radar technology, which works by the reflection of electromagnetic waves. (Allah knows the truth.) The word "*awwibee*" in verse 10 of Surah Saba', translated as "*echoing*" in the verse and meaning "**the return or reiteration of sound,**" is reminiscent of echo-based radar technology as well as radio receivers mentioned in previous pages.



An image of Warsaw in Poland obtained using radar.



A radar image taken by satellite. This image, formed using microwaves, shows a mountainous region of Salt Lake City, Utah.

Radar is a location device used to determine the location, speed and direction of mobile or stationary objects, and works by reflecting microwaves.⁴² The operating principle of radar bears a close similarity to the reflection of sound. For example, someone shouting in a valley or a cave hears his own voice being reflected back to him. If we know how fast sound travels through the air, we can calculate the distance and general direction of the object it bounces off.

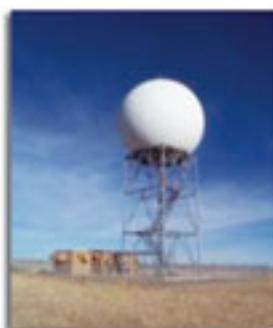
In the radar system, electromagnetic energy signals are used in very much the same way. Signals with a microwave frequency are emitted toward an object and then return after being reflected by it. This part of the signal returning to the radar is called an "echo." Radar devices use this echo to determine the direction and distance of the object doing the reflecting.⁴³ Since they also use electromagnetic energy, radio, television and the human eye all bear a close resemblance to radar systems, though their frequencies are ultimately different. In addition, radar uses the reflected energy known as the "echo," rather than directly transmitted energy as in these examples.⁴⁴ Reflected signals are converted into numeri-



Radar used to control the traffic in New Zealand.



This 27-meter-high radar facility, reminiscent of a fly's eye, scans the sky above northern Alaska and is used as an early warning system against ballistic missiles.



Air radar used to identify powerful storms and track their movements.

cal values by the radar receiver and recorded as data on "echo stores." Finally, the data is processed and converted into images.⁴⁵

The use of the Arabic verb "*alanna*," meaning "**We have made malleable**," in the tenth verse of Surah Saba' is again exceedingly wise. Iron is still described as soft, or malleable, despite being physically very hard. This form of iron, known as "**soft magnetic iron**" because of its magnetic properties is used greatly in radar and satellite technology.⁴⁶ Soft iron is used because it strengthens the magnetic field and can be opened and closed as desired.

"**The wind being told to blow at his command**" is how the Qur'an describes the power given to the Prophet Solomon (as). Verse 36 of Sura Sad may very well be a reference to electromagnetic signals being transmitted as desired in the air—thanks to the use of soft iron. (Allah knows the truth.)

The radar imaging used today scans the world at every moment and developments taking place anywhere on the earth can thus be constantly monitored. In addition, data can be collected about physical features on



This radar facility, constructed in Florida in the 1960s, was used to identify ballistic missiles launched from submarines.



This satellite photograph (above) taken on 2 March, 1999, shows the clouds over Ohio, USA. "Soft iron" is frequently used in satellite and radar technologies because of its magnetic properties. Soft iron strengthens the magnetic field. The expression "We made iron malleable for him..." in verse 10 of Surah Saba' may be a reference to the soft iron used in satellite and radio technologies. (Allah knows the truth.)

earth, such as mountains, glaciers and the oceans—and also about man-made objects, such as houses, bridges and cars. This operating principle, as well as the materials used in this advanced technology, can be found

in the Qur'an. Could anybody have known these facts in the middle of the Arabian Peninsula in the 7th century AD? This information can only have come from our Lord, Who created past and future as a single moment and Who is unfettered by time.

THE EXPANDING EARTH

It is He Who stretched out the earth and placed firmly embedded mountains and rivers in it and made two types of every kind of fruit. He covers over day with night. There are signs in that for people who reflect. (Surat Ar-Ra'd, 3)

The Arabic term "*madda al-arda*" translated "**as stretched out**" in the above verse, means "to be covered, spread out, stretched, pulled out, expanded or opened." The use of this word in the context of the earth in referring to the formation of mountains and rivers is exceedingly wise, because looking at the scientific explanation of the formation of the earth, it does indeed appear that mountains and rivers formed through the stretching and expansion of the earth.

Present day science says that the earth had a very different appearance in the very earliest times compared to what it is now. In his book *Die Entstehung der Kontinente und Ozeane* (The Origin of the Continents and Oceans) printed in 1915, the famous German scientist Alfred Lothar Wegener proposed that all the continents had originally been one single land mass. This great land mass later came to be known by the Greek name *Pangaea*, meaning "all continents.⁴⁷ According to Alfred Wegener's theory of "continental drift," put forward in 1912, the continents at the two ends of the Atlantic Ocean are still moving away from one an-



This photograph taken by NASA from space shows the Gulf of Aqaba and the Suez Canal, to the east of the Sinai Peninsula. The Sinai Peninsula, the Dead Sea and the River Jordan constitute the northern part of the Great Rift Valley.

other. This theory assumed its latest, present-day state with the development of the scientific theory known as plate tectonics. Continents do not move away from one another by sliding over the ocean floor, rather the ocean floor and the continents drift together over a layer of liquid magma under great heat and pressure and known as the "asthenosphere" or "upper crust." Therefore, both the land continents on earth visible from the outside and also the crust under the sea are both in motion together.⁴⁸

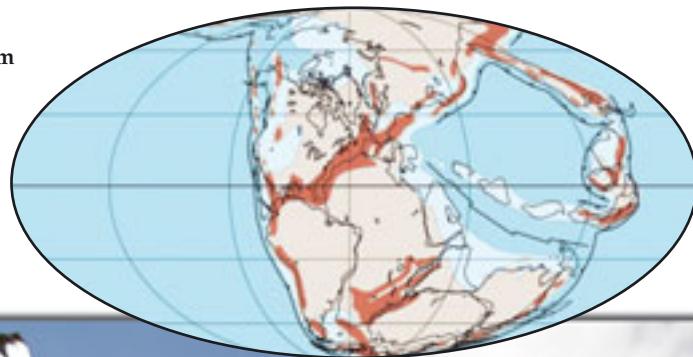
Because the plates that bear the continents move in a manner described as contraction and expansion, or stretching, the continents are today moving away from one another at a rate of approximately three centimeters per year.⁴⁹ The most evident expansion taking place on the sea bed is that between Arabia and Africa, where the continents are moving away from one another three or four times faster. When the expansion takes place on the continent, rather than on the sea bed, the result is constantly widening valleys such as the Great Rift Valley in the East Africa-Arabia regions.

The Great Rift Valley is a geographical and geological formation

Harun Yahya (Adnan Oktar)

stretching some 6000 kilometers, from Sudan in North Africa to Mozambique in the east. The valley ranges from 30-100 kilometers in width and is several thousand kilometers deep.⁵⁰ This deep valley brought such formations as Mount Kilimanjaro and Mount Kenya into being as Africa and the Arabian Peninsula moved away from one another over a process lasting millions of years. The eastern part of valley consists of the River Jordan, the Dead Sea and the Gulf of Aqaba. It then extends southward along the Red Sea and various lakes in Kenya. Most of these

A reconstruction from the time when there was only one large continent - Pangaea- about 300 million years ago.



lakes are very deep and below sea-level.⁵¹

The book *The Expanding Earth* describes how it is not only mountains, but also certain river beds that formed due to the "expansion" of the earth:

In all cases the greatest stress occurred at the location of the earth's major rivers. This development suggests that the major riverbeds came into existence as a result of expansion rather than random erosion. Since the continents were fixed on an expanding surface, it may be logically deduced that expansion caused the land masses to stretch and, at the points of greatest tension, to break, thus forming the rivers.⁵²

In statements regarding the continent of North America, the Utah Geological Research Center says:

The ranges and basins have been forming for the past 10 to 20 million years in response to east-west stretching of the earth's crust. **Stretching** creates tension that is released by slow continuous movement or sudden movement along a fault (a break in the earth's crust), which causes earthquakes. During an earthquake, the mountains rise while the valleys drop along the faults. The stretching continues today.⁵³

Facts such as the expansion of the earth can only be established by comprehensive research and common data from various contemporary branches of science. For example, photographs taken by satellite, the product of 20th century technology, have confirmed the view that the continents were once complementary to one another. Highly accurate measurements have revealed that the expansion in the earth's crust is continuing at a slow but specific rate. The presence of such special information in the Qur'an, at a time when nobody could determine anything about the continents and, what is more, about formations that took millions of years to develop, once again shows that it is the word of Allah. The way that the Qur'an, revealed 1,400 years ago, contains such profound information about the formation of the earth, is one of its scientific miracles.

THE SUN WILL EVENTUALLY EXPIRE

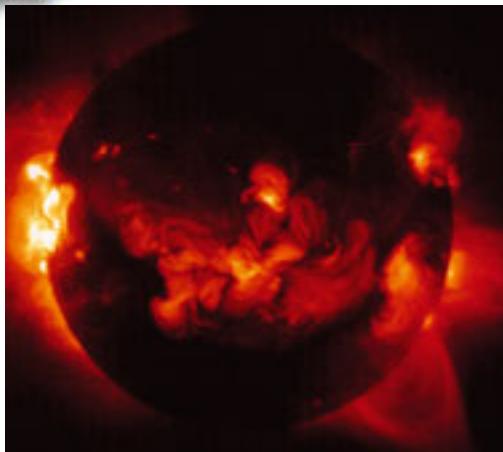
And the Sun runs to its resting place.

That is the decree of the Almighty, the All-Knowing.

(Surah Ya Sin, 38)

The Sun has been emitting heat for around five billion years as a result of the constant nuclear reactions taking place on its surface. At a moment determined by Allah in the future, these reactions will eventually come to an end - and the Sun will lose all its energy and finally go out, extinguished like a light bulb which runs out of power. In that context, the above verse may be a reference to the Sun's energy one day coming to an end. (Allah knows the truth.)

The Arabic word "*limustaqarrin*" in the verse refers to a particular place or time. The word "*tajree*" translated as "runs," bears such meanings as **"to move, to act swiftly, to move about, to flow."** It appears from the meanings of the words that the Sun will continue in its course in time and space, but that this motion will continue until a specific, predetermined time. The verse **"When the sun is compacted in blackness,"** (Surat at-Takwir, 1) which appears in descriptions of Doomsday, tells us that such a time will eventually come. Of course, the specific timing is known only to Allah.



A photograph of the Sun taken by NASA. The bright areas on the Sun are those regions where the magnetic field is strongest.

The Arabic word "*taqdeeru*," translated as "decree" in the verse, includes such meanings as "to appoint, to determine the destiny of something, to measure." By this expression in verse 38 of Surah Ya Sin, we are told that the life span of the Sun is limited to a period of time ordained by Allah. Other verses of the Qur'an on the subject read:

Allah is He Who raised up the heavens without any support – you can see that – and then established Himself firmly on the Throne. He made the Sun and Moon subservient, each running for a specified term. He directs the whole affair. He makes the Signs clear so that hopefully you will be certain about the meeting with your Lord. (Surat ar-Ra'd, 2)

He makes night merge into day and day merge into night, and He has made the Sun and Moon subservient, each one running until a specified time. That is Allah, your Lord. The Kingdom is His. Those you call on besides Him have no power over even the smallest speck. (Surah Fatir, 13)

He created the heavens and the earth with truth. He wraps the night around the day and wraps the day around the night, and has made the Sun and Moon subservient, each one running for a specified term. Is He not indeed the Almighty, the Endlessly Forgiving? (Surah az-Zumar, 5)

The use of the word "*musamman*" in the above verses shows that the life span of the Sun will run for a "specified term."

Scientific analysis regarding the end of the Sun describes it as consuming four million tons of matter per second, and says that the Sun will die when that fuel has all been consumed.⁵⁴ The heat and light emitted from the Sun is the energy released when matter is consumed: hydrogen nuclei turn into helium in the nuclear fusion process. The Sun's energy, and its life, will therefore come to an abrupt end once this fuel has been used up. (Allah knows the truth.) A report titled "The Death of the Sun" by the BBC News Science Department says:

... The Sun will gradually die. As a star's core crashes inwards, it eventually becomes hot enough to ignite another of its constituent atoms, helium. Helium atoms fuse together to form carbon. When the helium supply runs out, the centre collapses again and the atmosphere inflates. The Sun isn't massive enough to fully re-ignite its core for a third time. So it goes on expanding, shedding its atmosphere in a series of bursts... The dying core eventually forms a white dwarf - a spherical diamond the size of the Earth, made of carbon and oxygen. From this point on the Sun will gradually fade away, becoming dimmer and dimmer until its light is finally snuffed out.⁵⁵

PERIODIC TABLE

1 H	2 He
3 Li	4 Be
11 Na	12 Mg
19 K	20 Ca
37 Rb	38 Sr
55 Cs	56 Ba
87 Fr	88 Ra
1 Lantanitler	2 Aktinitler
58 Ce	59 Pr
60 Nd	61 Pm
62 Sm	63 Eu
64 Gd	65 Tb
66 Dy	67 Ho
68 Er	69 Tm
70 Yb	71 Lu
72 Th	73 Pa
74 U	75 Np
76 Pu	77 Am
78 Cm	79 Bk
80 Hg	81 Cf
82 Tl	83 Es
84 Pb	85 Fm
86 Bi	87 Md
88 Po	89 No
89 At	90 Lr

A documentary, also called "The Death of the Sun," broadcast by *National Geographic TV*, provides the following description:

It (the Sun) generates heat and sustains life on our planet. But like humans, the Sun has a limited lifespan. As our star ages, it will become hotter and expand, evaporating all of our oceans and killing all life on planet Earth... The Sun will get hotter as it ages and burns fuel faster. Temperatures will increase, eventually wiping out animal life, evaporating our oceans and killing all plant life... the Sun will swell and become a red giant star, swallowing up the nearest planets. Its gravitational pull will lessen and perhaps allow Earth to escape. By the end, it will shrink into a white dwarf star, emitting a weak glow for hundreds of billions of years.⁵⁶

Scientists have only recently unraveled the structure of the Sun, thus discovering what goes on inside its burning mass. Before that, nobody knew how the Sun obtained its energy or how it emitted heat and light. The way that such a giant mass of energy would one day consume all its energy and expire was revealed fourteen centuries ago to mankind through Allah's Final Messenger (pbuh.) Once again, the Qur'an its credentials as a source of sublime knowledge. That knowledge belongs to our Lord, Whose knowledge enfolds all things. It is revealed in another verse of the Qur'an thus:

... My Lord encompasses all things in His knowledge so will
you not pay heed? (*Surat al-An'am*, 80)

THE SUN'S HYDROGEN AND HELIUM CONTENT

The Sun is made up of 70% hydrogen (H) and 28% helium (He) atoms.⁵⁷ Other substances make up less than 2% of the Sun's constitutions. One of the most astonishing facts about the Sun is this: six hundred million tons of hydrogen are converted into a mind-boggling 596 million tons of helium in the Sun every second. The remaining 4 million tons is given off as heat and light energy.⁵⁸ In that sense, the first thing that comes to mind when the Sun is mentioned is the letters H (hydrogen) and He (helium) that stand for the Sun. All the 15 verses in Surat ash-Shams of the Qur'an (Shams meaning 'Sun'), end in the letters H and E. The Arabic equivalent of these letters are:

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ
مِنْ الْقُرْآنِ مُخْرِجٍ عَنْ شَيْءٍ

وَالنَّفَرِ وَضَيْهَا ۝ وَالْمَسْرَارِ إِلَيْهَا ۝ وَالنَّارِ إِلَيْهَا ۝ وَإِلَيْنِ
إِذَا يَغْشِيَهَا ۝ وَالْعَمَاءِ وَمَا بَيْهَا ۝ وَالْأَرْضِ وَمَا تَحْتَهَا ۝ وَنَفْسٍ
وَمَا سَوَّهَا ۝ فَالْحَمْبَرُ كَبُورٌ هَا وَتَغْشَيَهَا ۝ قَدْ أَفْلَمَ مِنْ زَكْرِهَا ۝ وَقَدْ
خَابَ عَنْ دَيْهَا ۝ كَذَبَتْ نَعْدُوْ بِطَغْيَاهَا ۝ وَابْتَغَيَهَا ۝ قَفَالَ
لَهُ دَرْسُولُ اللَّهِ نَافَةً أَفِيهِ وَسْقِيَهَا ۝ فَكَذَبَهُ فَعَقَرُوهَا
فَدَمَدَرَ عَلَيْهِ رَبِيعٌ يَدْبِيْهِ فَسَقَرَهَا ۝ وَلَا يَخَافُ عَقْبَهَا ۝

ه (The Arabic letter He)

ا (The Arabic letter Alif)

The Arabic form of the verses in Surat ash-Shams and the final letters thereof can be seen below:

As can be seen, all the verses in Surat ash-Shams end in the letters He and Alif. The letter H stands for hydrogen and He for helium. No other Surah in the Qur'an ends in the letters HE in every verse from beginning to end. It is therefore extremely striking how only this Surah's verses end

with this particular sequence of letters. Surat ash-Shams's number – 91 - is also highly significant. Apart from hydrogen, there are ninety-one other elements in the Periodic Table, and these are made up of hydrogen elements. From hydrogen, the lightest element, to the heaviest – all of these are intra-atomic combinations of hydrogen atoms. For that reason, the H (hydrogen) atom in the Sun makes up the other ninety-one elements in nature.⁵⁹

Almighty Allah has created all the details in nature, and is still creating them. All our knowledge about such details allow us to comprehend our Lord's Omniscience. In one verse, we are told:

Allah, there is no god but Him, the Living, the Self-Sustaining. He is not subject to drowsiness or sleep. Everything in the heavens and the earth belongs to Him. Who can intercede with Him except by His permission? He knows what is before them and what is behind them but they cannot grasp any of His knowledge save what He wills. His Footstool encompasses the heavens and the earth and their preservation does not tire Him. He is the Most High, the Magnificent. (Surat al-Baqara, 255)

*It is He who appointed the sun to give radiance,
and the moon to give light, assigning it phases
so you would know the number of years and the
reckoning of time. Allah did not create these
things except with truth. We make the Signs
clear for people who know.*

(Surah Yunus, 5)

HEART MASSAGE

Many miraculous features of the Qur'an prove it is Allah's Word. It contains scientific details, extraordinary scientific codes as well as many other features which categorically prove its divine status. In addition, information which could not have been scientifically proven during the lifetime of the Prophet Muhammad (saas) is found in abundance in Allah's Holy Book. The fact that only 20th and 21st-century technology has confirmed some of the Qur'anic verses provides clear proof that the Qur'an cannot be the work of any human being.

One of the verses that may be referring to the future is verse 73 of Surat al-Baqara:

Remember when you killed someone and violently accused each other of it, and Allah brought out what you were hiding. We said, 'Hit him with part of it!' In that way Allah gives life to the dead and He shows you His Signs so that hopefully you will understand.
(Surat al-Baqara, 72-73)

Among the meanings of the Arabic term "bibaadiha," translated as "with part of it" in the above verse, is "someone or some people."

In the context of that meaning, the



When the chest is struck from above during heart massage, the heart can start beating once again. The words "We said, 'Hit him with part of it!' In that way Allah gives life to the dead..." in the verse may be a reference to this effect of heart massage. (Allah knows the truth).

verse may be a reference to heart massage, striking the chest from above, which makes it possible to restart the heart if it has stopped beating. (Allah knows the truth.)

In such a scenario, the person to whom the massage is administered has the characteristics of a dead body: loss of consciousness, debilitating respiratory problems and decreasing heartbeat. With our present-day knowledge, heart massage can be applied to someone whose heart has stopped, enabling heartbeat and vital functions to resume. Pressure is applied to the rib cage at specific intervals during heart massage. Then, the rhythmic contraction required for it to continue pumping blood can be re-established. In that context, the striking of a dead body in such a way as to restore it to life, as stated in the verse, may be suggestive of the heart massage technique. The Qur'an is the word of Almighty Allah, He Who creates all things from nothing - and Whose knowledge enfolds all things. Every verse of the Qur'an therefore contains information revealed with the wisdom of our Almighty Lord. In one verse, Allah refers to the Qur'an itself as follows:

... Will they not ponder the Qur'an? If it had been from other than Allah, they would have found many inconsistencies in it. (Surat an-Nisa', 82)

THE CLONING OF LIVING THINGS

[Satan said:] "I will lead them astray and fill them with false hopes. I will command them and they will cut off cattle's ears. I will command them and they will change Allah's Creation." Anyone who takes satan as his protector in place of Allah has clearly lost everything." (Surat an-Nisa', 119)

The above verse contains the expression "yubattikunna," which derives from the verb "battaka" meaning "to cut off or break off." The term "yughayyirunna" in the verse derives from the verb "ghayyara," meaning "to change, alter, impair a thing's original form." At the end of both verbs appears the confirmatory letter "nun." With these expressions, this verse of Surat an-Nisa' may, in one aspect, be pointing to the scientific activity of copying or cloning of organisms. (Allah knows the truth.) This is because cloning experiments are generally conducted with cells taken from an animal's ear. To put it another way, a replica of a living thing is produced along with the extraction of cells from tissue samples "cut from animals' ears," just as described in the verse.

A report by the German Federal Agricultural Research Center provides the following information:

The tissue collection phase is short and simple. Once an animal has been located and restrained, a tissue sample like an ear clipping can be collected within seconds. Furthermore, somatic cells can be

collected from all species... For cattle, pigs, sheep, goats, camelids and llamas, a unified and identical procedure can be used by obtaining a tissue sample from the ear using notchers which are also used for setting earmarks... Clearly, for all species lymphocytes could be used, but somatic cells from ear clippings will be much easier to obtain and are therefore preferable.⁶⁰

Some reports concerning organisms cloned by taking samples from ear tissue include:

- According to a report by Reuters dated 1 May, 2002, a research veterinarian at the University of Sao Paolo in Brazil, Jose Visintin, produced cloned embryos for the first time in the country by using cells taken from the ear of an adult cow.⁶¹



Snuppy, the cloned dog

- According to a BBC report, South Korean scientists cloned a dog called Snuppy from cells taken from a three year-old Afghan hound. Researchers at Seoul National University extracted genetic material from the cells taken from the ear and placed it into an empty egg cell. An embryo was then obtained by stimulating the cell to divide.⁶²

- Another BBC report said that a new clone had been produced using ear cells from an adult cow in research carried out by Dr. Jean-Paul Renard et al. at the Institute National de la Recherche Agronomique in France.⁶³

- According to information of the official Human Genome Project website, in February 2002, scientists from Advanced Cell Technologies (ACT), an American biotechnology company, carried out experiments on cloning a cow embryo using the skin cell of the donor cow's ear.⁶⁴

- A report by Associated Press, dated 24 January, 2000, announced that Japanese scientists

- had cloned the clone of a bull for the first time. In the re-cloning, skin tissue samples from

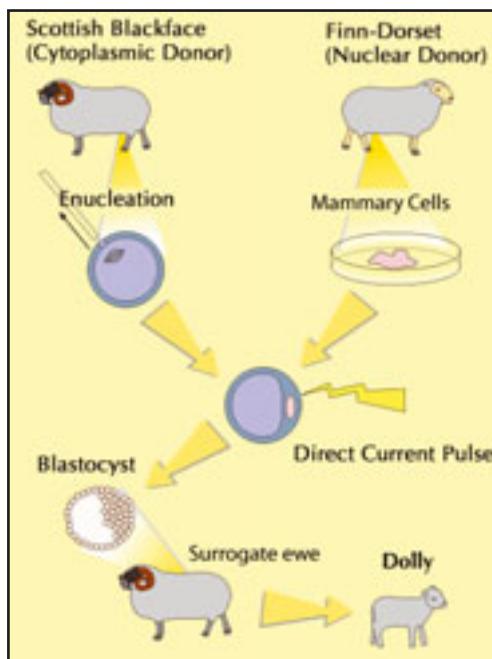
- the first generation cloned bull's ear were taken

when it was four months old. These cells

- were then fused with an unfertilized egg from which the nucleus had been removed.⁶⁵

- The way that changes in the Creation of living things are referred to in the Qur'an are highly significant. The expression "cutting off cattle's ears," at a time when no branches of science such as genetics or embryology existed, shows that the Qur'an has come down from the Sight of our Lord, Allah, Who is unfettered by time and space. We are also told at the end of the verse that these people will be disappointed when they alter what Allah has created. The verse may therefore be indicating that cloning will give rise to various problems for human beings. (Allah knows the truth.) Indeed, statements from the Genetic Science Learning Center of the University of Utah provide the following information:

When we hear of cloning successes, we learn about only the few at-



In the cloning process, DNA from a cell of the living thing planned to be copied is placed under the microscope and placed into an egg cell from another member of the same species. The DNA of the animal intended to be copied is used for this. An electric shock is then applied, which stimulates the egg cell to start dividing. The embryo continues to divide and is placed into the womb of a member of the species, and is then left to develop and be born.

tempts that worked. What we don't see are the many, many cloning experiments that failed! And even in the successful clones, problems tend to arise later, during the animal's development to adulthood.⁶⁶

Information from the Human Genome Projects website takes this form:

Dolly, the first mammal to be cloned from adult DNA, [died on] Feb. 14, 2003. Prior to her death, Dolly had been suffering from lung cancer and crippling arthritis... More than 90% of cloning attempts fail to produce viable offspring... In addition to low success rates, cloned animals tend to have more compromised immune function and higher rates of infection, tumor growth, and other disorders. Japanese studies have shown that cloned mice live in poor health and die early... Appearing healthy at a young age unfortunately is not a good indicator of long term survival. Clones have been known to die mysteriously. For example, Australia's first cloned sheep appeared healthy and energetic on the day she died, and the results from her autopsy failed to determine a cause of death.⁶⁷

In general terms, the risks arising from cloning experiments are as follows:

1) A high failure rate: The level of success is just 0.1%-3%. That means a failure rate of 970-999 for every 1000 experiments.⁶⁸



Dolly, the first mammal to be cloned, died on February 14, 2003.





2) Problems during development: Cloned animals that do survive generally have abnormally larger organs compared to the originals. This may lead to respiratory and circulatory difficulties, unhealthy kidneys and brains, and an impaired immune system.

3) Abnormal gene expression patterns: Although clones have the

same DNA sequences as the originals, the cell nucleus in the clone does not have the same program as that in a natural embryo. To put it another way, the DNA cannot activate the right set of genes essential for the development of the clone at the right time. For example, cells of all kinds, nerve, bone, blood or skin for example, all have different programs but the genetic programs in the cloned embryo do not work as healthily as those in a natural embryo.

4) Telomeric differences: Chromosomes are shortened as cells divide. The reason for this is that DNA sequences at both ends of a chromosome, known as telomeres, are shortened during each DNA replication. As an animal grows older, the telomeres shorten as part of the natural aging process. Therefore, the copied life form has shortened chromosomes from the moment it is born, just as if it were actually older.

Genetic material taken from living cells is used in cloning experiments, but fertilization takes place artificially. The reproduction mechanism created by Allah is thus impaired with these methods, and unidentified diseases, developmental deficiencies and early deaths are encountered. Fourteen centuries ago, it was of course impossible to know that scientists would eventually engage in cloning and that they would encounter enormous problems despite the millions of dollars they spend on

their projects. Once again, it is demonstrated in this verse that the Qur'an is a divine scripture.

THE CONTRACTION MOTION THAT FACILITATES BIRTH

The pains of labor drove her to the trunk of a date-palm. She said, 'Oh if only I had died before this time and was something discarded and forgotten!' A voice called out to her from under her, 'Do not grieve! Your Lord has placed a small stream at your feet. Shake the trunk of the palm towards you and fresh, ripe dates will drop down onto you.'

(Surah Maryam, 23-25)

Modern medicine shows that squeezing an object during labor facilitates the baby's downward passage through the birth canal. The muscles used during contraction are the same as those that propel the baby outside the womb. Various methods are employed to achieve this, such as pulling on a cord suspended from the ceiling or on arms attached to the two sides of the bed. Also, the mother also has the option of holding onto and squeezing someone's hand.

A U-shaped bar, known as a "squat bar," is mounted onto the bed during labor and this is then used by the mother to quicken the delivery. Pulling on this bar facilitates the baby's departure from the womb, shortens the length of the birth canal, widens the mouth of the womb and reduces the need for many other devices and techniques during labor.⁶⁹

This simple bar also helps the mother's squatting motions as she pulls herself up and down on it. It also means the mother remains immobile as the baby emerges.⁷⁰ In this position, the muscles needed to move the baby down the birth canal expend the min-

imum amount of energy. In addition, with the expansion of the pelvic bone, 30% more room is made available for the baby to pass through. With the expansion and contraction movement, the body's propulsive force is raised to the highest level and the baby is able to move smoothly during the birth process.

There is great wisdom in the way that, by means of Allah's angels, Mary shook the branches of the palm tree toward her. The Arabic word "huzzee" means "to shake fast, to move or to rock." It has been well-documented that dates facilitates the labor process and possess powerful and nutritious properties. But in addition, we must also note that as Mary (as) pulled the branches toward her to shake the dates from their branches must also have facilitated the birth and widened the birth canal. This technique applied in our own day by midwives all over the world, is yet another compelling proof that Allah supported Mary (as) with His compassion with the Wisest Counsel. It also proves, once again, that the Qur'an can only be a text sent by our Lord, the Omniscient.

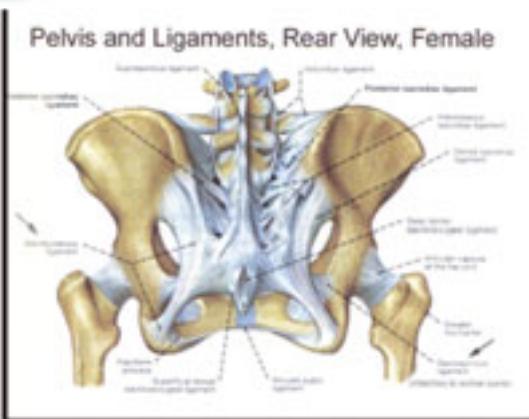


THE MOTHER'S WOMB WITH ITS SECURE PROTECTION

Did We not create you from a base fluid, then place it in a secure repository for a recognized term? It is We Who determine. What an excellent Determiner! (Surat al-Mursalat, 20-23)

We created man from the purest kind of clay; then made him a drop in a secure receptacle; then formed the drop into a clot and formed the clot into a lump and formed the lump into bones and clothed the bones in flesh; and then brought him into being as another creature. Blessed be Allah, the Best of Creators! (Surat al-Muminun, 12-14)

The above verses about the Creation of human beings contain fundamental information from the field of embryology. The reference “a secure receptacle”, a description of the womb, indicates certain technical and biological truths which are of great significance to modern scientists. (Allah knows the truth.) A “zygote” is the term given to what is produced by the sperm and egg cells coming together. This process continues until we witness the emergence of a complete human being, made up of trillions of cells all working in harmony: this all takes place in the safety of the mother's womb. This remarkable place, where the embryo completes its nine months of development is, as the verse tells us, “a secure receptacle..”



The ligaments that tightly bind the bones together in the pelvic region can be seen.

The word "ma-keenin" translated as "secure" above, also suggests such meanings as "unshakeable, sound, resolute,

powerful, fixed and safely put in place." The word "qararin" also means "location, stability, permanence and place of settlement." These words very wisely describe the womb as a sound and safe location.

The mother's womb provides insulation against external agents such as light and sound. It also provides a strong shield against shock and pressure, thus protecting the baby from any discomfort or inconvenience. Located in the pelvic cavity, the womb is well protected by the thick and strong bones that surround the "endometrium" on the inside – and this helps to bear the weight of the embryo until the end of pregnancy. This structure, made up of powerful muscles, is ideally constructed for the baby's growth and development. During pregnancy, the ligaments attaching the bones in the region together become thicker and longer. These ligaments that attach the top of the womb to the strong pelvic bones make the womb very strong and stable.

Yet, despite blocking out so much, the embryo still has unrestricted access to what it needs to de-



Although the embryo is foreign to the mother's womb, it is not attacked by the defense system. This is a miraculous state of affairs intended to protect the embryo.

velop: heat, water, oxygen and nutrients all contribute to its miraculous development. The mother's womb undergoes many changes that enhance its strength during pregnancy. Together with the muscles, ligaments and elastic tissues it contains, there is also an increase in the number of blood vessels and nerves. The womb is thus able to increase 20 times in weight and 1,000 times in capacity without coming to any harm.⁷¹ The fallopian tubes that support the womb, the ovaries and other connective tissues all expand and become more elastic.⁷² The constant changes in the womb continue even after the embryo has grown into a healthy baby many hundreds of times larger than its initial state. The womb now changes in such a way as to permit the baby to exit in a healthy manner.

During pregnancy, another extraordinary state of affairs regarding the protection of the baby comes about. The baby is also protected against internal threats. When a foreign body enters the body, such as during an organ or bone marrow transplant, the host's defense system begins reacting, and this can sometimes lead to fatal consequences.⁷³ But that never happens to the fetus, and the mother's immune system does not regard it as a foreign body. It is quite amazing that the mother's immune system tolerates foreign genes from the father; because the baby is, after all, 50% foreign body. Marianne van den Heuvel, a scientist from Guelph University, describes this as "fascinating" and continues: "That was always a puzzle from an immunology standpoint because the fetus is actually foreign. It's part of the mother and also part of the father. It should be rejected by the body."⁷⁴



One would expect the defense system to declare war on the fetus's cells in much the same way that an army should declare war on foreign occupiers of their country. This defense system, when working properly, swiftly identifies viruses and tumors as foreign bodies – and then kills them. But, by the will of Allah, no such thing happens, and the womb remains a very safe and secure place for the baby to develop.

All the information about embryology provided in the Qur'an is in full agreement with modern medicine. This information, which has emerged through advanced technology, is one of the clearest proofs that the Qur'an is the revelation of our Lord, the Creator of all. The following is also revealed:

And in your Creation and all the creatures He has spread about there are Signs for people with certainty. (Surat al-Jathiyya, 4)



OXIDATION IN THE BLOOD

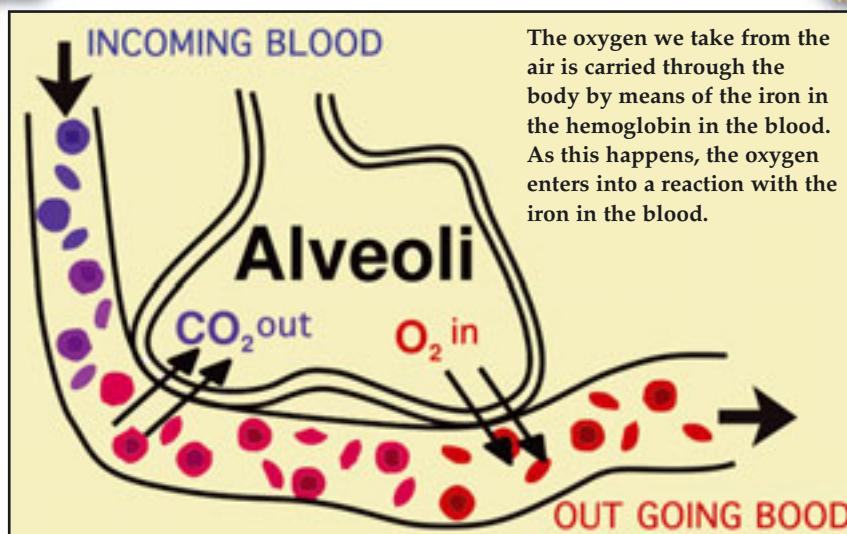
No indeed! Rather what they have earned has rusted up their hearts. (Surat al-Mutaffifin, 14)

The term “rusted” is here used to describe the constitution of the hearts of some human beings. Whilst the verse contains spiritual elements, the verse may also refer to the biochemical reaction that takes place in the heart. (Allah knows the truth.) Rust is the result of iron reacting with oxygen – this is the process known as oxidation.⁷⁵ The oxygen we absorb from the air is carried through the body by means of the iron present in the hemoglobin in the blood. During this process, the oxygen reacts with the iron in the blood. This means there is a constant resemblance to “rusting” in our blood. This “rusted” blood is then carried to the heart and around the circulation system of the human body.



Blood cells

An excess of iron in the blood can even lead to premature aging in all of the body's cells by causing rust-like oxidation. In the disease



known as "hemochromatosis," caused by excess iron accumulating in the body, iron produces a toxic effect and causes organs such as the liver to collapse. Since this is the result of iron oxidation, this phenomenon is often described as organs "rusting" or "rust accumulation" in organs".⁷⁶ In the journal *Science News* Dr. Sharon McDonnell describes the iron oxidation in cells making up organs as 'rusting'.⁷⁷

Another reference says this about the disease: "... those with hemochromatosis absorb iron, storing it in their organs. Over time, it accumulates in toxic amounts, causing organs to fail because they literally rust."⁷⁸

It is only possible to identify the reaction of iron with oxygen in the body—oxidation in the blood—in laboratories with highly advanced equipment. The fact that such a comparison, so compatible with the scientific data, appears in the Qur'an is an evident miracle, given the era of the Qur'anic revelation. The Qur'an also contains countless other pieces of information which are in complete agreement with modern science. Surely, this is another sign that it is the revelation of Omniscient Allah, our Lord and the Creator of all things.

THE WISDOM BEHIND THE PROHIBITION OF BLOOD IN THE QUR'AN

He has only forbidden you carrion, blood and pork and what has been consecrated to other than Allah. But anyone who is forced to eat it – without desiring it or going to excess in it – commits no crime. Allah is Ever-Forgiving, Most Merciful.

(Surat al-Baqara, 173)

The wisdom behind Allah's prohibition of blood emerged during the 20th century. By carrying vitamins, hormones, oxygen and substances such as protein, sugar and fat absorbed during digestion to the cells, blood makes it possible for life to survive. On the other hand, it also carries various toxins and waste products that need to be expelled from the body. One of the most important tasks performed by blood is to transport substances such as urea, uric acid, keratin and carbon dioxide that need to be removed from the body.

Therefore, in the event that significant quantities of blood are consumed, the level of harmful products in the body that should be expelled will rise considerably. That will increase the levels of urea: harmful substances transported to the kidneys for expulsion from the body. This can impair brain functions and in the worst case scenario, can even result in coma. That is why, because of its very nature, there will always be harmful compounds in blood, even if taken from seemingly healthy animals.

If it is taken from a sick animal, various parasites and germs



will also be transmitted in it. In that event, the germs may multiply and spread throughout the body – and that is the ultimate danger. If someone consumes blood, all the germs and waste products in it may spread through the body and lead to such diseases as kidney insufficiency or liver coma. In addition, most of the microbes carried in the blood may cause other diseases by damaging the lining of the stomach and the intestines.

What is more, blood is not a sterile environment. To put it another way, it is absolutely ideal for germs to grow in.⁷⁹ Since microbes have excellent opportunities to feed in blood, it represents a perfect breeding ground for them. When in equilibrium with the functions of the other fluids in the body and the immune system, blood does not support micro-organisms, and therefore disease. In a healthy individual, these micro-organisms live by making use of one another inside the body. When that environment is seriously impaired - when the internal equilibrium is damaged - micro-organisms may cause disease when they find the appropriate surroundings.

For example, when the blood pH level (acid and alkali balance) is imbalanced because of poor nutrition or harmful chemicals, harmless microbes can begin to cause disease. If the body is to be healthy, the pH level of the blood should be around 7.3. Even small variations in that level may cause that balance to be impaired. In turn, this may cause micro-organisms to become more harmful in order to adapt to their surroundings. Blood becoming sterile is quite similar to milk souring when left outside.

Microbes already present in the blood exhibit harmful effects by adapting to their new environment.⁸⁰

In addition to all this, blood is not suitable for use as a food product. The level of digestible proteins such as albumin, globulin and fibrinogen is low - just 8 grams in 100 milliliters of blood. The same applies to fats. In addition, blood contains a high level of hemoglobin, a complex protein that is very difficult to digest and is unacceptable to the stomach. When blood clots, the protein fibrinogen gives rise to a plate containing erythrocyte - red blood corpuscles. It then transforms into "fibrin," one of the hardest proteins to digest. In today's world, health experts agree that blood is unfit for human consumption in any form.

After saying: "**Unlawful for you are carrion, blood and pork, and what has been consecrated to other than Allah, and animals which have been strangled, and animals which have been killed by a blow, and animals which have fallen to their death, and animals which have been gored, and animals which wild beasts have eaten – except those you are able to slaughter properly – and animals which have been sacrificed on altars, and deciding things by means of divining arrows – that is deviance...**" Almighty Allah goes on to say..." **But if anyone is forced by hunger, not intending any wrongdoing, Allah is Ever-Forgiving, Most**

Merciful" (meaning that an exception can be made.) (Surat al-Ma'ida, 3)

Abiding this law of Allah, people of the time were protected against a threat of which they were unaware.

It is clear that those who believe and trust in Allah are more likely to prosper. Those who comply with His commandments and prohibitions will enjoy auspicious lives in this world and the Hereafter, living under our Lord's Protection and Infinite Mercy.

THE TSUNAMI EFFECT IN THE PROPHET MOSES' (AS) PARTING OF THE SEA

*So We revealed to Moses, 'Strike the sea with your staff.'
And it split in two, each part like a towering cliff.
(Surat Ash-Shu'ara', 63)*

The Egyptian monarchs known as the pharaohs regarded themselves as divine beings. This was fundamental part of the polytheistic, superstitious religious beliefs prevalent in ancient Egypt. Allah sent the Prophet Moses (as) as messenger to the people of Egypt at a time when they preferred their own superstitious beliefs to the true faith, Islam. It was also during this period of time when the ruling family of Egypt had cruelly enslaved the Israelite tribes in their country. Although the Prophet Moses (as) invited the rulers and the people of Egypt to the faith of the one, true God – Allah – most refused to abandon their pagan beliefs. When they rejected his message, the Prophet Moses (as) reminded the Pharaoh and his court that the wrath of Allah is something to be avoided at all costs. Yet, despite this dire warning from Allah's Messenger, they rebelled and hurled false accusations at the Prophet in their midst. They accused Moses (as) of madness, sorcery and mendacity. Although various tribulations were inflicted on Pharaoh and his people, they stubbornly refused to submit to the one, true God. They even held the Prophet Moses (as) responsible for what had befallen them, accusing him of cursing their lands, and sought to exile him from Egypt. At this,

Allah told the Prophet Moses (as) and those with him to leave where they were:

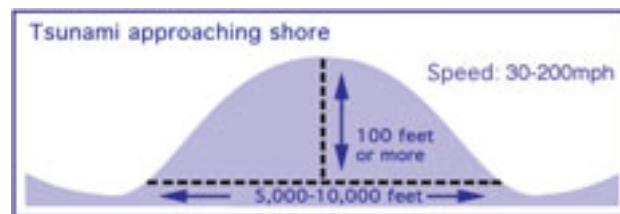
We revealed to Moses: 'Travel with Our slaves by night. You will certainly be pursued.' Pharaoh sent marshals into the cities: 'These people are a small group and we find them irritating and we constitute a vigilant majority.' We expelled them from gardens and springs, from treasures and a splendid situation. So it was! And We bequeathed them to the tribe of Israel. So they pursued them towards the east. (Surat ash-Shu'ara', 52-60)

As revealed in the Qur'an, the two peoples—the Israelites and the Egyptians—came together at the end of this chase. Allah rescued the Prophet Moses (as) and the believers with him by parting the sea, while destroying Pharaoh and his people. Allah's assistance to the believers is revealed as follows in the Qur'an:

So We revealed to Moses, 'Strike the sea with your staff.' And it split in two, each part like a towering cliff. And We brought the others right up to it. We rescued Moses and all those who were with him. Then We drowned the rest. There is certainly a Sign in that yet most of them are not believers. Truly your Lord is the Almighty, the Most Merciful. (Surat Ash-Shu'ara', 63-68)

The Arabic word "*idrib*," translated as "strike" in the first of these verses, also means "to open, divide or separate." In the light of this expression and what happened subsequently, the verse may be a reference to the formation of tsunami waves. (Allah knows the truth.) Tsunami waves cause large amounts of water to shift and they can give way to the emergence of earth on shallow grounds. In the time of the Prophet Moses (as), as with the tsunami waves, the waters might have pulled back some hundreds of meters and this might have caused the parting of the sea. (Allah knows the truth.)

In addition, the waters are compared to mountains in the above verse. The waters collected in a tsunami form a giant peak⁸¹ and resemble a mountain seen from below. As with mountains, the base of



this extraordinary phenomenon is very broad and strong. In tsunamis, the depth of the water declines while the mass of the wave expands and rises in height. Tsunamis may be up to 30 meters high.⁸² It is therefore very significant how the waters are likened to a mountain in this Qur'anic passage.

Tsunamis are very different to the waves we are familiar with, and are a movement of the entire depth of water. This is not generally restricted to the surface, and may stretch for several kilometers. They thus possess high levels of energy and move amazingly quickly.⁸³ Scientific statements say this about tsunamis:

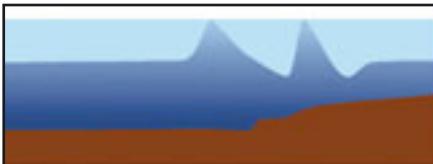
In fact the tsunami crest is just the very tip of a vast mass of water in motion... Wind-driven waves and swells are confined to a shallow layer near the ocean surface, a tsunami extends thousands of feet deep into the ocean.... Survivors of tsunami attacks describe them as dark "walls" of water. Impelled by the mass of water behind them, the waves bulldoze onto the shore and inundate the coast...

... The contours of the sea floor and coastline have a profound influence on the height of the waves -- sometimes with surprising and dangerous results.

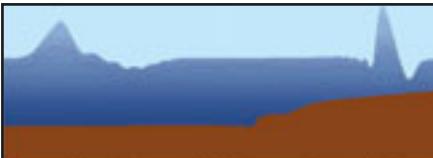
TSUNAMI FORMATION:



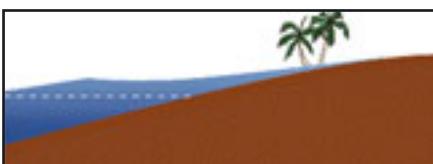
Stage 1—Beginning: If the tsunami acts like an earthquake, the sea floor is moved up or down. As a result the mass of water moves up or down.



Stage 2 —Separation: Within a few minutes, the tsunami that starts to form divides in two, one part moving toward the depths of the ocean, the other reaching the coast.



Stage 3—Elevation: The tsunami wave reaching the shore rises up like a huge wave when it reaches the land.



Stage 4- Wave impact: The leading wave becomes pointed and appears to rise even higher. The first part of the wave to hit the land is convex in shape, which is why the water initially seems to be pulling away from the land.

During the 1993 tsunami attack on Okushiri, Japan, the wave "run up" on the coast averaged about 15 to 20 meters (50 - 65 feet). But in one particular spot, the waves pushed into a V-shaped valley open to the sea, concentrating the water in a tighter and tighter space. In the end, the water ran up to 32 meters (90 feet) above sea level, about the height of an 8-story office building.⁸⁴



The force applied to the sea floor causes mountainous waves to form by causing the water to rise up vertically.

Past events described in the Qur'an are in complete agreement with present-day historic evidence and scientific advances – this is, without doubt, one of the great miracles of the Qur'an. The waters parted when the Prophet Moses (as) and his companions needed to cross yet they closed again over the heads of Pharaoh and his army – this is a clear instance of Allah's Love for true believers. Indeed, the Prophet Moses (as) displayed an excellent example of proper moral values by trusting in Allah in that most difficult moment:

And when the two hosts came into sight of one another Moses' companions said, 'We will surely be overtaken!' He said, 'Never! My Lord is with me and He will guide me.' (Surat ash-Shu'ara', 61-62)



SCIENTIFIC FACTS IN THE STORY OF THE FLOOD OF NOAH

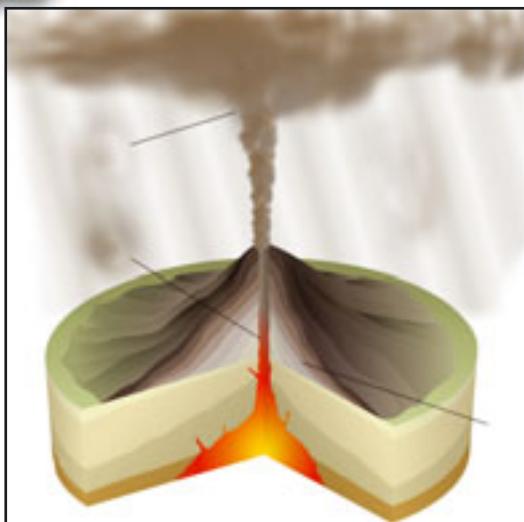
We sent Noah to his people and he remained among them for fifty short of a thousand years; yet the Flood engulfed them while they were wrongdoers. (Surat al-'Ankabut, 14)

The Prophet Noah (as) spent many years advising the people to whom he was sent as a Prophet to put an end to ascribing partners to Allah and abandon their improper behavior or they would pay a heavy price. Even though he warned his people about the wrath of Allah several times, they still disbelieved in him and continued to worship a number of false "gods" and idols. At this, Allah told the Prophet Noah (as) that He would punish those who denied Him by drowning them, but that believers would be saved. The destruction of the people of Noah (as) and the salvation of those who believed is described as follows in the Qur'an:

But they denied him so We rescued him and those with him in the Ark. And We drowned the people who denied Our Signs. They were a blind people. (Surat al-A'raf, 64)

The events that took place when the time for Allah's promised punishment came are described thus:

So when Our command came, and water bubbled up from the earth, We said, 'Load into it a pair of every species, and your family –except for those against whom the Word was preor-



The term "the oven gushed forth" in the verse refers to boiling lava being ejected from within the mountain. (Allah knows the truth.)

dained— and all who believe.' But those who believed with him were only few. (Surah Hud, 40)

The beginning of the punishment is described as when "**water bubbled up from the earth.**" The Arabic word translated as "earth" is "*al-tan-nooru*". This describes a kind of oven made by digging a hole in the ground, and therefore refers to the volcanic fire inside a mountain. (Allah knows the truth.) The Arabic word "*wafara*" in the verse means "burned strongly, produced bubbles, boiled up, boiled over, produced a foam". Therefore, the reference in the verse would seem to be to the flowing, molten lava in the mountain.

In another verse, the moment when Prophet Noah (as) boarded the Ark is dubbed "**when water bubbles up from the earth**". This may also be a reference to hot steam or smoke rising from a volcano immediately before an eruption:

We revealed to him: 'Build the Ship under Our supervision and as We reveal. When Our command comes and water bubbles up from the earth, load into it a pair of every species, and your family – except for those among them against whom the Word has already gone ahead. And do not address Me concerning those



Photograph of the Cleveland Volcano in Alaska taken from the International Space Station.

who do wrong. They shall be drowned. (Surat al-Muminun, 27)

The molten lava flowing in the wake of the eruption may have caused the ice on the mountain to melt. Intense steam was caused by the combination of heat and cold – meanwhile, the molten lava flowed into the sea may have given rise to intense rains. Flooding was the result of these phenomena, and sources of water on land may also have overflowed as a consequence of the severe rains. (Allah knows the truth.)

So We opened the gates of heaven with torrential water and made the earth burst forth with gushing springs. And the waters met together in a way which was decreed. We bore him on a planked and well-caulked ship. (Surat al-Qamar, 11-13)

Whilst those who boarded the Prophet Noah's (as) Ark were saved, those that had rejected Allah's Messenger was drowned. This group included the Prophet Noah's (as) own son who mistakenly imagined he could escape by seeking refuge on a mountain nearby:

It sailed with them through mountainous waves, and Noah called out to his son, who had kept himself apart, 'My son! Come on board with us. Do not stay with the unbelievers!' He said, 'I will take refuge on a mountain; It will protect me from the flood.' He



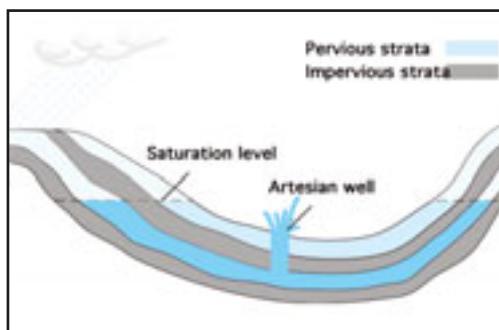
said, 'There is no protection from Allah's command today except for those He has mercy on.' The waves surged in between them and he was among the drowned. (Surah Hud, 42-43)

When the flood waters finally receded, the Ark settled on al-Judi, meaning a very high place:

It was said, 'Earth, swallow up your water!' and, 'Heaven, hold back your rain!' And the water subsided and the affair was concluded and the Ark came to land on al-judi. And it was said, 'Away with the people of the wrongdoers!' (Surah Hud, 44)

Shortly after, when the mountains stopped churning forth lava, the waters resumed their former equilibrium as the air cooled down and withdrew back underground. Some of the water may also have risen into the air as water vapor. Later, the water level returned to normal. Allah's command to the

The words "Earth, swallow up your water" in the verse may be a reference to water on the ground being pulled underground, as with artesian waters. (Allah knows the truth.)





earth to "swallow!" and to the sky to "hold back!" summarizes this process extremely concisely. The Arabic word "*belea*," which appears in the verse in the form "*ibla'ee*," means "swallow up and eliminate, pull back." The reference to the earth swallowing up its water notes the formation of subterranean water sources – this all happens as the water on the surface retreats underground again. The Arabic verb "*aklaa*," which takes the form "*aqli'ae*" in the verse, means "the dispersal of clouds, rain stopping, or abandoning a matter or course of action." The description is therefore one of the air cooling down as lava stops flowing. Then rain then stops because the water vapor level in the air returns to normal - and finally, this vapor in the clouds disperses into the air. (Allah knows the truth.)

This chain of events, in complete agreement with the scientific facts only established in the last century or so, is detailed with brilliant accuracy in the Qur'an. It is just one of the proofs that Islam's Holy Book—comprising information about many branches of science, such as geography, geology and meteorology—is in complete harmony with the science of today.

THE OZONE LAYER AT THE POLES AS THE SUN RISES

Until he reached the rising of the Sun and found it rising on a people to whom We had not given any shelter from it.
(Surat al-Kahf, 90)

The Arabic word "sitran" in this verse means "cover, protection, veil" while "lam naj'aal lahum min dooniha sitran" describes an environment devoid of any shelter or protection against the Sun. In the light of present-day knowledge, this is suggestive of the ozone layer that protects living things against harmful solar rays.

The area where the ozone layer offers the least protection against solar radiation is at the poles of our planet—North and South.⁸⁵ Scientific research has established a severe thinning of the ozone layer at the North Pole at the moment the Sun rises⁸⁶ and this scientific discovery has been described as Sunrise Ozone Destruction (SOD).⁸⁷

During their research, American scientists determined a rapid decrease in ozone concentration at the



Sunrise at the North Pole.



moment of sunrise—when there was no sign of any before.⁸⁸ This phenomenon is particularly encountered in the North Pole (Arctic) region. Here, there is a massive loss of ozone for a few hours immediately after sunrise.⁸⁹

The Arabic word "*matli'a*" in this verse, meaning the "place of birth, time of birth" of the Sun, may well be a reference to this scientific discovery about the ozone layer. (Allah knows the truth.) The fact that this information, obtained with the 20th century high technology, also appears in such a compatible form in the Qur'an, is yet more proof that the Qur'an is the revelation of our Lord, the One and Only Lord of science and technology.

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It is He Who splits the sky at dawn, and appoints the night as a time of stillness and the sun and moon as a means of reckoning. That is what the Almighty, the All-Knowing has ordained.

(Surat al-An'am: 96)

Mathematical Miracles Of The Qur'an



PART .I

SOME OF THE SCIENTIFIC INFORMATION REFERRING TO NUMBERS IN THE QUR'AN

THE DATE OF THE LUNAR LANDINGS

The Hour (of Doomsday) has drawn near and the Moon has split.

(Surat al-Qamar, 1)

The word "Qamar" means "Moon," and the word "Moon" appears in the first verse of Surat al-Qamar. There are 1390 verses from that verse to the end of the Qur'an. The year 1390 in the Islamic calendar corresponds to 1969 AD, the date of the lunar landings. This, one of the greatest landmarks in human history, was indicated fourteen centuries beforehand. (Allah knows the truth.)

In addition, the word "inshaqqa," meaning "split," is used in this verse. The word is derived from the root "shakka," meaning "to plow, dig up, to turn the soil..." In the same way, the Apollo 11 spacecraft that went to the Moon also took specimens of lunar dust back to Earth. In that sense, the term "the Moon has split" is consistent with developments in the present day.

Number of verses from the first verse of Surat al-Qamar

to the end of the Qur'an = 1390

Date of the lunar landings (Islamic calendar) = 1390

(This chapter is based on Ömer Çelakil's Kur'an-ı Kerim'in Sırları [The Secrets of the Qur'an] [Merkez Gazete Dergi Basım Press, 2003] and Kur'an-ı Kerim'in Şifresi [The Code of the Qur'an] [Simir Ötesi Press 2002])

THE ORBIT OF THE MOON

The word "Qamar," a direct reference to the Moon, appears a total of 27 times. The elliptical orbit of the Moon around the Earth also takes 27 days. But this is not a number that someone looking from Earth could actually determine.

Because there is a 29-day period between full moons, it used to be thought it took the Moon this amount of time to travel around the Earth. However, the reality is that whilst the Moon revolves around the Earth, the Earth is also orbiting the Sun. Interestingly, because of the movement of the Earth, the Moon completes its orbit with a delay of 2 days. This is another reference in the Qur'an consistent with modern astronomical findings.

(Allah knows the truth.)

Number of times the word "Moon" appears in the Qur'an = 27

Time it takes the Moon to travel round the Earth (in days) = 27

THE RATIO OF THE SEA TO THE LAND

The ratio of the appearances of the words "sea" and "land" in the Qur'an is identical to the ratio between sea and land in modern science. The continents had not yet been discovered at the time the Qur'an was sent down, and it was impossible to determine the ratio between the land and sea. Even such a large continent as America was only discovered in the 15th century.

The word "land" appears 13 times in the Qur'an, while "sea" appears 32 times. These numbers total 45. If we divide the number of references to land in the Qur'an, 13, by 45, the result is 28.888888889%. When we divide the number of references to sea in the Qur'an, 32, by 45, the result is 71.111111111%. These ratios are the exact ones that apply between water and dry land on Earth.

The repetition of these words in the Qur'an may be an indication that the Earth is 71% covered in water and 29% in dry land. (Allah knows the truth.) It has only been possible to arrive at this ratio in the present day, thanks to detailed satellite photos and intricate computer calculations.

Number of times the word "land" appears in the Qur'an = 13

Number of times the word "sea" appears in the Qur'an = 32

Proportion of dry land to sea covering the Earth = 13/45 = 29%

Proportion of sea to dry land on Earth = 32/45 = 71%

THE STAR SIRIUS

"Sirius", the brightest star in the night sky, appears as "Shi'ira," meaning "star" in verse 49 of Surat an-Najm:

That it is He Who is the Lord of Sirius [Shi'ira]. (Surat an-Najm, 49)

The fact that the word "Sirius," or "Shi'ra" in Arabic, appears only in the 49th verse is particularly noteworthy. Because, based on the irregularities in Sirius' orbit, scientists discovered it is actually a binary star. Therefore, Sirius is actually two stars, known as Sirius A and Sirius B. One feature of Sirius B is that cannot be seen by telescope.

The stars in Sirius system follow a course toward one another in the shape of a bow, and hang in the sky by approaching one another every 49.9 years. This scientific data has been unanimously confirmed by the astronomy departments at the universities of Harvard, Ottawa and Leicester.⁹⁰ Yet this scientific fact that only emerged toward

the end of the 20th century was miraculously referred to in the Qur'an to a Prophet in the middle of the Arabian Peninsula fourteen centuries ago. This miracle appears when we read the 9th and 49th verses of Surat al-Najm together.

That it is He Who is the Lord of Sirius. (Surat an-Najm, 49)

He was two bow-lengths away or even closer. (Surat an-Najm, 9)

The term "kana qaba qawsayni aw adna," in the ninth verse, translated as "**two bow-lengths away or even closer**," may be a reference to **these two stars drawing closer to one another in their courses**. (Allah knows the truth.) This scientific fact, which could not possibly have been known at the time of the revelation of the Qur'an, proves once again that the Qur'an is the word of our Almighty Lord.



The star Sirius A, in front, is larger than Sirius B. (NASA)

The star Sirius appears in the Surah called an-Najm, meaning "Star."

The stars comprising Sirius approach one another in their courses once every 49.9 years. This astronomic phenomenon is indicated in verses 49 and 9 of Surat an-Najm.

THE ATOMIC NUMBER OF IRON

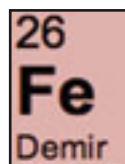
Iron is one of the elements mentioned in the Qur'an. Allah says this in the Surah called "al-Hadid," or "Iron:"

... And We sent down iron in which there lies great force and which has many uses for mankind... (Surat al-Hadid, 25)

The word "anzalna," meaning "**to send down**," may also be thought of in the figurative sense of being placed at the service of human beings. But bearing in mind the true meaning of the word, which is "physically descending from the sky,"—used for rain and solar rays - then the verse can be seen to contain a hugely significant scientific miracle. Because modern astronomical findings have revealed that the iron on Earth came from giant stars in outer space.⁹¹ (For details see, *Miracles of the Qur'an*, 4th edition, Harun Yahya)

In addition, Surat al-Hadid also refers to the chemical symbol for iron. Because **verse 15, in the exact middle of the Surah, begins with the Arabic letter "Fe," which is how iron is known to chemists.**

In addition, the number emerging from a numerological [abjad] calculation of the words "al-Hadid," is the same as the number of the Surah:



"57." A calculation of the word "hadid" alone produces the number 26. And this corresponds to the number of iron in the periodic table. The Qur'an, which contains the revelation of our Omniscient Lord, refers both to the formation of iron and to its atomic number. (Allah knows the truth.)

*Al-Hadid is the 57th Surah of the Qur'an,
and the numerical value of the words al-Hadid is also 57.
The value of the word "hadid" alone is 26, and this is also the
atomic number of iron.*

THE ROTATION OF THE EARTH AROUND THE SUN: 365 DAYS

The word "day," "yawm" in Arabic appears 365 times in the Qur'an. It also takes the Earth 365 days to orbit the Sun.

The fact that the word "day" appears 365 times in the Qur'an is very important in terms of its providing information about the Earth's orbit hundreds of years ago. The repetition of the word "day" 365

times may be a reference to the 365-day relationship between the Earth and Sun. (Allah knows the truth.)

The word "day (yavm)" appears 365 times in the Qur'an.

It takes the Earth 365 days to orbit the Sun.

GENDER AND THE 23rd CHROMOSOME PAIR



The twenty-third chromosome determines gender in human beings. The words "woman" and "man" are each repeated separately 23 times in the Qur'an.

The genetic make-up of human beings and other living things depends on their chromosomes - and the genetic data in these chromosomes, found in DNA. Gender is dependent on the 23rd chromosome pair. In other words, the difference between a man and a woman stems from the 23rd chromosome pair. If a person's 23rd chromosome is expressed in the form XX she is female, and if in the form XY, then he is male.

The Qur'an makes reference to the 23rd chromosome that determines the difference between male and female thus: The word "man" and the word "woman" both appear 23 times in the Qur'an. This discovery about chromosomes, made only in recent decades, was reported hundreds of years beforehand in the Qur'an by way of the number 23. In short, it is this crucial number which marks the basic difference between male and female. (Allah knows the truth.)

The words "man" and "woman" both appear 23 times in the Qur'an. The 23rd chromosome is the main element that determines an individual's gender.

THE SPUTNIK RISING TO THE SKIES

The first ever satellite, "Sputnik 1," was launched in 1957. Verse 19:57 (Surah Maryam, 57) of the Qur'an, amazingly, refers to rising and being raised.

We raised him up to a high place. (Surah Maryam, 57)

The term "rafa'nahu" in this verse is derived from the verb "refea," meaning "to raise, lift up or elevate." On the other hand, the word "aliyyan" in the verse bears the meaning of "high, very high" in addition to "great." When we consider this verse by itself, therefore, it means "being raised into a very high place." In that respect, verse 19:57 may be a reference to the launching into the sky of the spacecraft Sputnik 1 in 1957. (Allah knows the truth.)

*Verse 19:57 of the Qur'an speaks of "raising to a high place."
"Sputnik 1," the first unmanned satellite, was launched in 1957.*

THE GENETIC CODE OF THE BEE

It is scientifically established that all the bees in the world have the same number of chromosomes-and that never changes. Male and female animals generally have the same number of chromosomes. But the bee is slightly different: the male bee has 16 single chromosomes and the female bee 16 pairs.⁹²

The bee is thus different in this respect, that of chromosome number. This difference is indicated in the Qur'an thus: (Allah knows the truth.) The Surah "Nahl," meaning bee, is the sixteenth Surah of the Qur'an, and "16" is the number of chromosomes these animals possess.

*Surat an-Nahl, meaning "Bee," is the 16th Surah.
The bee has 16 chromosomes.*

PART. 2

SOME OF THE SCIENTIFIC FACTS INDICATED THROUGH SEQUENCES OF LETTERS IN THE QURAN

HALLEY'S COMET AND 76 YEARS

One of the greatest developments in modern astronomy is the discovery of Halley's Comet. The 18th-century scientist Edmund Halley discovered that the comet comes around every 76 years. With that discovery, Halley established that comets have astronomical orbits. The name "Halley" by which the comet is known, appears in a most striking way in verse 76 of Surat al-An'am in the Qur'an:

**When night covered him he saw a star and said, 'This is my Lord!'
Then when it set he said, "I do not love what sets."** (Sura An'am, 76)

فَلَمَّا جَنَّ عَلَيْهِ الظَّلَّ مَكَانَ كَبَّاقَ هَذَا رَبِّي فَقَدَّ أَفَلَ قَالَ لَا أَحِبُّ لِأَفَلَيْنَ

The letters that make up the word "Halley" appear for the first time in the Qur'an in this verse. Furthermore, the reference to a "setting" star is highly significant. What is more, the Arabic word "*kawkaban*," meaning "star," appears right next to the letters comprising "Halley."

KEVKEB			
ك	و	ك	ب
BE	KE	VE	KE
			←

HALLEY			
ه	ا	ل	ي
YE	LE	LE	A HE
			←



NASA tarafından 8 Mart 1986'da görüntülenen Halley kuyruklu yıldızı.

Seventy-six, the number of the related verse, on the other hand, may indicate seventy-six years, which is Halley's orbital period. (Allah knows the truth.) The verse number "76" represents the Halley comet: Halley becomes visible from the Earth every 76 years. In short, its orbital period is 76. For this reason, that Halley is mentioned for the first time in the Qur'an in the 76th verse seems to be a great miracle of Allah.

HEMOGLOBIN AND IRON

At the time the Qur'an was revealed, nobody was aware of the molecule hemoglobin. There was no such medical term in existence. Hemoglobin transports oxygen and carbon dioxide in the blood throughout the human body. In addition, it gives blood its red color. It was only discovered in the 19th century.

Hemoglobin forms thanks to the element iron (Fe) in our bodies and is of vital importance to the performance of vital functions. The element iron (Fe) present in the middle of hemoglobin binds itself to oxygen and thus carries oxygen in the blood. For that reason, the hemoglobin molecule can be considered together with the element iron.

In verse 25 of Surat al-Fath, the letters comprising the words Fe (iron) and hemoglobin miraculously appear side by side. In addition, the letters comprising hemoglobin do not appear side by

side in any other verse. This exceptional circumstance is one of the proofs of the Creation of Almighty Allah, the Lord of the past and future, He who is unfettered by time and space.

* *The word hemoglobin is written almost the same in Turkish, Arabic, English and other languages. The letters comprising the word hemoglobin appear side by side from left to right.*

مَنْكُوفًا أَنْ يَلْعَمْ مَحْلَةً

HEMOGLOBIN
ف ن ي ب ل غ م ح
HE ME GE LE BE YE NE FE
→

THE OZONE LAYER

The word "ozone" is written and read in just about the same way in Arabic, Turkish and other foreign languages. The letters that comprise the word ozone appear side by side in the 6th verse of Surat al-Jinn. Moreover, the verses that follow refer to the "protective" nature of the sky:

We tried, as usual, to travel to heaven in search of news but found it filled with fierce guards and meteors. (Surat al-Jinn, 8)

The "guards" in the sky are highly compatible with the role of the ozone layer within the Earth's atmosphere. In short, it is the protective layer in the sky, keeping harmful rays away from the Earth. The appearance - side by side - of the letters that comprise the word ozone, and in the above verse that refers to the "protective" nature of the sky, cannot be explained by chance. This is a miracle created in the Qur'an by our Lord.

يَوْمَ وَنْ

OZONE
و ذ و ن
NE VE ZE VE
←

THE RETINA: THE LAYER OF THE EYE

The retina is a layer of the eye that contains cells that allow us to see. At the time of the revelation of the Qur'an, this layer that made sight possible was unknown and the term "retina" was not in use. Yet the letters



that comprise the word "retina" appear - side by side - in only one place in the Qur'an, in verse 8 of Surah Fatir. This verse also refers to "seeing," for which reason there is a strong possibility that it refers to the retina. (Allah knows the truth.)

And what of him the evil of whose actions seem fine to him so that he sees them as good? Allah misguides whoever He wills and guides whoever He wills. So do not let yourself waste away out of regret for them. Allah knows what they do... (Surah Fatir, 8)

This verse, which contains the word "retina", refers to the Arabic verb "raa," meaning "to see." The 19th verse contains the sentence "**The blind and seeing are not the same.**" Damage to the retina can lead to permanent blindness. The following verse refers to "**nor are darkness and light.**" That term is highly significant in terms of the formation of the retina's light-sensitive cells. All these terms regarding sight are very rare in the Qur'an. The fact that the word "retina" appears only in these verses out of thousands, is another of Allah's Miracles in the Qur'an.



* The Arabic alphabet consists of consonants alone. The letter alif is used to influence the way words are read.

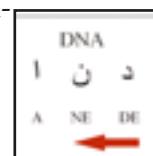


DNA AND THE BEGINNING OF GENETIC HISTORY

The term DNA (Deoxyribo Nucleic Acid) is an abbreviation scientists use when talking about the genetic material in living things. The beginning of the science of genetics dates back to genetic laws drawn up by the scientist Mendel in 1865. The date, a turning point in the history of science, is referred to in Surat al-Kahf, verse 18:65.

When the appearance of the letters D-N-A (Dal-

فَوَجَدَ أَعْنَادًا مِنْ عِنْدِنَا يُوَجِّهُ مِنْ عِنْدِنَا وَعَنْ كَاهْ مِنْ لَدُنَّا عَلَى



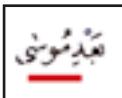
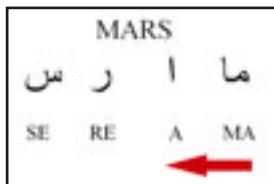
Nun-Alif in Arabic) side by side in places in the Qur'an is examined, they appear most frequently in this particular verse. The letters D-N-A appear side by side three times in this verse, in a unique manner. In no other verse of the Qur'an do the letters "DNA" appear consecutively so often.

The number of this exceptional verse in which the term DNA appears so strikingly is 18:65. These numbers are an expression of the date when the science of genetics began. This is unlikely to be a coincidence. Because only in verse 18:65 of the Qur'an do the letters "DNA" appear three times consecutively. This is something miraculous, because the scientific world only came up with the name DNA (Deoxyribo Nucleic Acid) comparatively recently.

In Surat al-Kahf, which refers to DNA and the year 1865 when the science of genetics began, DNA is repeated 7 times, as is RNA (the Arabic letters Ra-Nun-Alif). Like DNA, the RNA molecule is a molecule giving rise to genetic structure. For that reason, the appearance of DNA and RNA an equal number of times in this Surat is further proof that these molecules were referred to in the Qur'an hundreds of years ago. (Allah knows the truth.)

SAND DUNES AND THE PLANET MARS

The word "Ahqaf," one of the Surah of the Qur'an literally means "sand dunes." In astronomy, one of the first characteristics that come to mind when the planet Mars is mentioned is the giant collections of sand, or giant "sand dunes" on its surface. These make Mars completely different to the other eight planets.



*In Arabic, the letter "Waw" is read as a consonant when it appears inside a word.

An examination of the sequence of letters in verse 23 of Surat al-Ahqaf shows that the Arabic letters *Mim*, *Alif*, *Ra* and *Sin* appears side by side to make the word Mars.

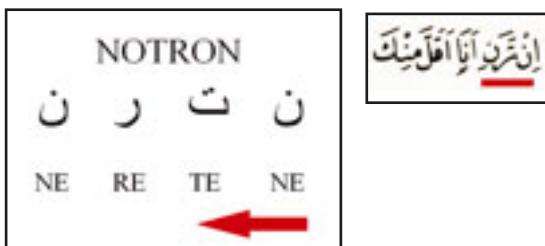
The way these letters appear in Surat al-Ahqaf, a word meaning "sand dunes," one of the most striking features of the planet Mars, is highly noteworthy. Additionally, it is not just Mars that appears in this Surah, but also its satellite "Deimos." The letters that make up the name of "Deimos," which orbits Mars, appear side by side in verse 30 of Surat al-Ahqaf. These things are all examples of the infinite knowledge and wisdom our Lord.

QUANTUM PHYSICS

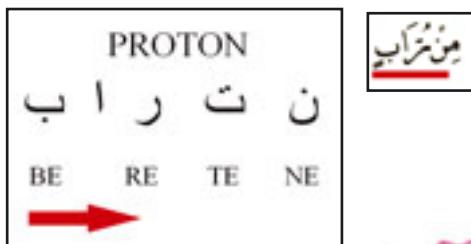
At the time of the revelation of the Qur'an, quantum physics and atomic sub-articles were unknown. But the Qur'an, extraordinarily, contains indications of all past and future sciences within its Arabic text. A further example of this can be seen in verses 37 and 39 of Surat al-Kahf, in which the names and weights of these fundamental particles are indicated in a miraculous manner. (Allah knows the truth.)

The letters that make up the word "neutron" (the Arabic letters Nun-Te-Re-Nun) appear consecutively in only two verses in the whole of the Qur'an. One of these is in verse 18:39, which itself expresses the "**neutron mass = 1839 me.**"

As we have seen, verse 39 of Surat al-Kahf contains references to both the name of the neutron and, in terms of the verse number, of the neutron mass. (Allah knows the truth.) These letters appear consecutively in none of the other thousands of verses, and only in verse 18:39 does the word "neutron" appear.



The same thing applies to the "proton." The letters comprising the word "proton" (the Arabic letters Be-Re-Te-Nun) appear in relatively greater numbers in the Qur'an compared to the neutron. Only in verse 37 of Surat al-Kahf, verse 18:37, in other words, do the letters comprising the word consecutively from left to right. The proton mass is "1836-1837 me" and is generally taken as "**1837 me.**" Therefore, the number of this verse could be a direct reference to the mass of the proton, "1837 me." (Allah knows the truth.)



* There is no letter "P" in Arabic, the letter "Be" being used instead.

The words "neutron" and "proton" are written essentially the same way in Turkish, English, Arabic and other languages. Another verse that refers to these particles that comprise atoms reads as follows:

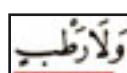
... Not even the smallest speck eludes your Lord, either on Earth or in heaven. Nor is there anything smaller than that, or larger, which is not in a Clear Book. (Surah Yunus, 61)

UNDERGROUND ENERGY RESOURCES: PETROL

Petrol, the one of the most important sources of energy, was first referred to by that name in a book titled *De Re Metallica* (On the Nature of Minerals.) This work was published in 1556 by the German Georgius Agricola. Bearing this in mind, it is important to note that the Qur'an contains critical references to these valuable energy resource, which were named hundreds of years later after the lifetime of the Prophet Muhammad (saas) (Allah knows the truth.)

The letters that comprise the word "petrol" appear side by side in only one verse of the Qur'an. The Arabic words "*fee thulumati al-ardi*" in verse 59 of Surat al-An'am, meaning "the darkness of the earth," appear in the same verse and suggest the subterranean formation of petrol.

... He knows everything in the land and sea. No leaf falls without His knowing it. There is no seed in the darkness of the earth, and nothing moist or dry which is not in a Clear Book. (Surat al-An'am, 59)



* There is no letter "P" in Arabic, the letter "Be" being used as its equivalent.



The word "petrol"—which began being used only in recent decades—is written or read in the same way whether in Turkish, English or Arabic. It is also the same in many other languages all over the world.

So how is petrol formed? According to modern scientific findings, it emerges after a lengthy period of time from the remains of either plants or animals. Another verse of the Qur'an that suggests this reads:

He Who brings forth green pasture, then makes it blackened stubble. (Surat al-A'la, 4-5)

(For a more detailed account, see Harun Yahya, *Allah's Miracles in the Qur'an*, Vol. 1, 8th edition, July 2006)

THE INVENTION OF TELEVISION

Television transmissions take place by electromagnetic waves travelling at the speed of light reaching our homes. Television waves are so fast that live transmissions from many kilometers away can be made almost instantaneously. Surat an-Naml of the Qur'an describes how the Prophet Solomon (as) had the throne of a queen in a far-distant country brought to him instantaneously in a miraculous manner, in a manner reminiscent of the above technology:

He who possessed knowledge of the Book said, 'I will bring it to you before your glance returns to you.' And when he saw it standing firmly in his presence, he said, 'This is part of my Lord's favor to test me to see if I will give thanks or show ingratitude... (Surat an-Naml, 40)

When reading this verse, the ideas of teleportation or image transmission—television—immediately spring to mind. Some letters in Surat an-Naml, in which this phenomenon is described, come together in a mysterious manner to comprise the word "television."

وَالْأَنْبَىْرُ وَالْقَطَّافِ



The letters that constitute the word television appear side by side, from left to right, in verse 17 of Surat an-Naml, which itself refers to the Prophet Solomon (as). The word “television” – like some examples in previous chapters - is written and pronounced in more or less the same way in Turkish, English, Arabic and many other other languages. Looking at the sequence of letters here and the passages cited, we see a miracle that cannot possibly occur by chance. It seems that each one of these instances is a sign for those who study the Qur'an that still grater mysteries may lie concealed within it. In one verse, our Almighty Lord says this of the Holy Qur'an:

If all the trees on earth were pens and all the sea, with seven more seas besides, was ink Allah's words still would not run dry. Allah is Almighty, All-Wise. (Surah Luqman, 27)

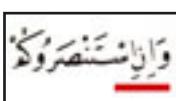
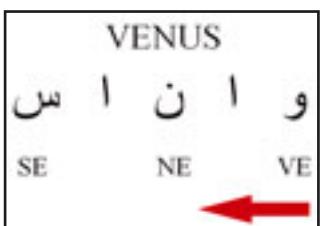
THE DURATION OF ROTATION OF VENUS AND MARS

Venus and Mars are the names of the closest and second-closest planets to the Earth. In the Qur'an, the letters that make up the present-day names of these planets are set out in such a way as to indicate the speed of their rotation.

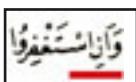
The letters that make up the name **Venus** (*Waaw-Alif-Nuum-Alif-Shiin* in Arabic) appear side by side in verse 72 of Surat al-Anfal. The next sequence of letters spelling out the word “Venus” appears in verse 3 of Surah Hud. There are 243 verses between these two. It takes

Venus exactly 243 days to revolve around its own axis. In other words, the revolution starts all over again after 243 days. The letters comprising the word Venus appear 243 verses after their first appearance in the Qur'an.

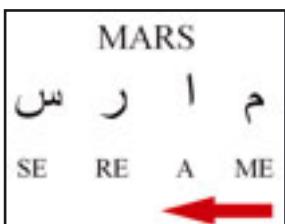
The same sequencing applies to Mars. The letters that comprise the word Mars (*Miim-Alif-Raa-Shiin* in Arabic) first appear side by side in verse 44 of Surat al-Mu'minun. The next time the sequence appears is in verse 45. In other words, they appear just 1 verse later. It takes the planet Mars just **1 day** to revolve around its own axis.



The letters comprising the word "Venus" appear side by side from right to left in verse 72 of Surat al-Anfal.



The letters comprising the word "Venus" appear side by side from right to left in verse 3 of Surah Hud.



The letters comprising the word Mars appear side by side from right to left in verse 44 of Surat al-Mu'minun.



The letters comprising the word Mars appear side by side from right to left in verse 45 of Surat al-Mu'minun.

Only modern astronomy has allowed us to understand the length of time it takes for Mars and Venus to respectively revolve around their own axes. These periods were discovered by astronomers hundreds of

years after the revelation of the Qur'an. The names "Venus" and "Mars" used in modern astronomy appear as "al-Merrikh" and "az-Zuhra" in order in the Arabic text. Different societies had different names for these planets at the time of the revelation of the Qur'an. The appearance of these famous planetary names in a book, like the Qur'an, which was revealed nearly 1400 years ago is therefore miraculous. These extraordinary sequences in the Qur'an once again confirm that the Qur'an is the revelation of Almighty Allah. In Surat as-Sajda Almighty Allah states:

"The revelation of the Book, without any doubt of it, is from the Lord of the worlds. Or do they say, 'He has invented it'? No indeed! It is the truth from your Lord to warn a people to whom, before you, no warner came, so that hopefully they will be guided."
(Sur as-Sajda, 2-3)



PART. B

SOME OF THE CHEMICAL ELEMENTS INDICATED IN THE QUR'AN

The entire universe, the Earth we live on and all living and inanimate entities are made up of various combinations of elements. Although the atoms that comprise the elements are all made up of the same particles, they possess exceedingly diverse characteristics. What essentially makes the elements different from one another is their atomic numbers—in short, the number of protons in their nuclei. There is one proton in hydrogen, the lightest element, 2 in helium, the next lightest, 79 in gold, 8 in an oxygen atom and 26 in iron. The property that differentiates gold from iron, or iron from oxygen is merely the number of protons in their respective atoms. The air we breathe, the human body, any plant or animal or planet in space, living or inanimate, sweet or sour, solid or liquid: absolutely everything is made up of protons, neutrons and electrons within Allah's Sublime Creation. (For details see *The Miracle of the Atom* [Ta-Ha Publishers Ltd])

"Hadid"—one of the Surahs in the Qur'an – literally means "iron," one of the elements. Other elements and their atomic numbers and masses are also indicated in this Surah. (Allah knows the truth.) To put it another way, Surat al-Hadid contains information about the atoms which constitute the very matter that makes up the universe. The provision of this information, at a time when the elements and their atomic numbers had not been discovered, is yet another spectacular miracle of the Qur'an.

(This section is based on Ömer Çelakil's book "Building Blocks of the Universe in the Holy Qur'an" and contains calculations the accuracy of which has been confirmed.)

Harun Yahya (Adnan Oktar)

The sequence of the Arabic letters in Surat al-Hadid represent expressions containing our Lord's Commands—and it also carried pertinent scientific advice on the one hand and references concerning atoms on the other.

This study was conducted taking the Arabic letter "Ra" as the "R" in Western alphabets or "Mim" as the letter "M." The sequence of the letters representing the element is not considered. It is sufficient for the letters to appear side by side. This is because the letters in the element Kr, for example, do not represent another element by the name of "Rk."

IUPAC PERIODIC TABLE OF THE ELEMENTS

Scientists have identified 92 natural elements. Artificial elements have also been obtained by various experiments in recent times, but these are seldom found on Earth.

To date, the existence of 110 elements has been verified by the International Union of Pure and Applied Chemistry (IUPAC).

RADON = $_{86}\text{Rn}$

86	2
Rn	8
Radon	18
(222.0176)	32
	18
	8

The element Radon (Rn) was discovered by the German chemist Friedrich E. Dorn in 1900, hundreds of years after the revelation of the Qur'an. The element is rarely found in nature. Radon is radioactive element and used in medical treatments.

Number of letters from the beginning of the verse until the letters "Rn" appear: 86
Atomic number of the element "Rn": 86

(Surat al-Hadid, 22)

وَالْأَوَّلَادِ مُكْتَلِفَاتٍ لَيْلَةً أَجْبَرَنَّ نَسَاءَ هَمَّجُ فَرِيدٌ مُصْفَرًا
 نَسَاءٌ كُلُونُ حُطَّامًا وَأَوْيَ الْأَحْرَةِ عَذَابٌ شَدِيدٌ وَمَفِيرٌ
 مِنَ اللَّهِ وَرِضْوَانٌ وَمَلْكِيَّةُ الدَّنَبِ إِلَامَتْ أَعْلَمُ الْمُرْوَرِ ⑤

ZIRCONIUM = $_{40}\text{Zr}$

40	2
Zr	8
Zirconium	18
91.224	10
	2

Zirconium (Zr) was discovered by the German chemist Martin Heinrich Klaproth in 1789. Of course, nobody in 7th Century Arabia would have known about Klaproth or Zirconium or its scientific make-up. Therefore, a Qur'anic reference to this element, used in the cores of nuclear reactors, hundreds of years beforehand, is certainly a considerable miracle. There are 40 letters between the first time that the letters "Z" and "R" appear together and the beginning of the verse. The atomic number of Zirconium, chemical symbol Zr, is 40. There are also 91 letters between the first time the letters "Z" and "R" come together and the end of the actual verse – and remarkably, that number is the atomic weight of Zirconium.

*Number of letters between the beginning of the verse and the letters Zr: 40
 Atomic number of the element "Zr": 40*

(Surat al-Hadid, 13)

ذلِكَ هُوَ الْفَوْزُ الْعَبِيدِ ۝ يَوْمَ يَقُولُ اللَّهُ فَيُسْأَلُ وَالْكُفَّارُ
 لِلَّذِينَ أَتَمُوا النَّظَرَ وَآتَيْتَهُمْ مِنْ نُورٍ كُلَّ فِيلٍ أَزِجَّمُوا رَأْيَهُ
 فَإِنَّهُمْ لَا يُفْسِدُونَ ۝ فَصَرِّبْتَ بَعْنَهُمْ سُورَةً يَاتِيَّهُ فِيهِ الرَّحْمَةُ
 وَظَاهِرُهُ مِنْ قِبَلِهِ الْمَذَاجُ ۝ يَنَادُونَهُ مَنْ كُنْتَ مَعَكُمْ فَأُولَئِكُمْ

TANTALUM = ₇₃ Ta

73	2
Ta	8
Tantalum	18
180.94788	32
	11
	2

The element Tantalum (Ta) was discovered by the Swedish chemist Anders Ekeberg in 1802. It is a very tough, durable element with a very high melting point. It is therefore used in such areas as electrics and electronics as it can withstand a great deal of heat. In addition, since this element does not react with bodily fluids, it is also employed regular in many famous medicines. This element, discovered centuries after the revelation of the Qur'an, is one of the rarest in nature.

There are 73 letters from the beginning of the verse to the first time the letters "T" and "A" appear together—and quite amazingly, that figure is the atomic number of Tantalum.

*Number of letters between the beginning of the verse and the letters "Ta": 73
 Atomic number of the element "Ta": 73*

(Surat al-Hadid, 16)

وَمَا نَزَّلَ مِنْ حَقِيقَةٍ وَلَا يَكُونُوا سَكَانًا لِلَّذِينَ إِذْنَ اللَّهِ كَيْفَيَّاتِهِ
 قَبْلًا فَطَالَ عَلَيْهِمْ الْأَمْدُ فَقَسَتْ قُلُوبُهُمْ وَكَثُرَ مِنْهُمْ
 فَاسْقُوْنَ ۝ إِنَّمَا أَنْشَأَ اللَّهُ شَجَاعَةً لِلْأَرْضِ بَعْدَ مَوْتِهِنَا فَذَرُوهَا لِكُمْ

FLUORINE = ₉F

9	2
F	9
Fluorine	
18.9984032	

The element Fluorine (F) was discovered by the French chemist Henri Moissan in 1886. There are 9 letters between the beginning of the verse and the first appearance of the letter "F" in Surat al-Hadid.

Number of letters between the beginning of the verse and the Letter "F": 9

Atomic number of the element "F": 9

(Surat al-Hadid, 1)

سَجَّلَ اللَّهُ مَا فِي السَّمَاوَاتِ وَالْأَرْضِ وَهُوَ أَعْلَمُ الْحَكِيمُ ◎ لَهُ مُلْكُ

OXYGEN = ₈O

8	2
O	8
Oxygen	
15.9994	

Oxygen is one of the most common elements on Earth. It was officially discovered in 1770 by two scientists, working separately: the Swiss Carl Scheele and the Brit, Joseph Priestley. There are 8 letters from the beginning of the verse to the first letter "O" in Surat al-Hadid. "O" is represented by the letter *Alif* in Arabic. The symbol of Oxygen is "O" and its atomic number 8.

Number of letters between the beginning of the verse and the letter "O": 8

Atomic number of the element "O": 8

(Surat al-Hadid, 1)

سَجَّلَ اللَّهُ مَا فِي السَّمَاوَاتِ وَالْأَرْضِ وَهُوَ أَعْلَمُ الْحَكِيمُ ◎ لَهُ مُلْكُ



SAMARIUM = $_{62}\text{Sm}$

62	
Sm	
Samarium	
150.36	

The French scientist Paul Lecoq de Boisbaudran discovered the element Samarium (Sm) in 1879. In the Surah the letters "S" and "M" first come together after the 62nd letter. These letters appear together as "M" and "S." But there is no element bearing the abbreviation Ms, the reverse of Sm.

Number of letters from the beginning of the verse to the letters "Sm": 62

Atomic number of the element "Sm": 62

(Surat al-Hadid, 15)

وَيَسْأَلُ الْمَهْمِرَ ۝ أَلْفَرِيَانَ لِلَّذِينَ آمَنُوا أَنْ تَخْشَعَ قُلُوبُهُنَّ لِذِكْرِ اللَّهِ

POTASSIUM = $_{39}\text{K}$

19	
K	
Potassium	
39.0983	

The British chemist Sir Humphrey Davy first obtained the element Potassium (K) using electrolysis in 1807. Potassium is a requirement for plants, animals and also the human body. It can be found quite easily as it is commonly found in the world of nature. It also has a wide field of application, from the making of explosives to the production of medicine.

There are 39 letters between the beginning of Surat al-Hadid and the first appearance of the letter "K," that figure being the element's atomic mass. In addition there are 19 letters between the beginning of the verse and here. It is also noteworthy that this is the atomic number of the element K.

Number of letters between the beginning of the verse and the letter "K": 39

Atomic mass of the element "K": 39

(Surat al-Hadid, 2)

الثَّنَوَاتِ وَالْأَرْضِ يُخْبِي وَيُبَيِّنُ وَهُوَ عَلَىٰ كُلِّ شَيْءٍ قَدِيرٌ ۝ هُوَ

SULFUR = $_{32}\text{S}$

16	S	32
Sulfur		32.065

The element Sulfur (S) is found in high levels in the bodies of living things and can also be found in abundance in soil. There are 32 letters in Surat al-Hadid up to the first letter "S". That figure is also the atomic mass of the element Sulfur.

Number of letters between the beginning of the verse and

the first appearance of the letter "S": 32

Atomic mass of the element "S": 32

(Surat al-Hadid, 4)

هُوَ الَّذِي خَلَقَ السَّمَاوَاتِ وَالْأَرْضَ فِي سَتَةِ يَوْمٍ ثُمَّ أَسْتَوَى عَلَى الْعَرْشِ
يَعْلَمُ مَا يَأْتِي فِي الْأَرْضِ وَمَا يَعْرِجُ مِنْهَا وَمَا يَبْرِزُ مِنَ السَّمَاءِ وَمَا يَعْرِجُ
فِيهَا وَهُوَ مَعْكُرٌ إِذْ مَا كَتَبَ وَاللَّهُ مَا أَنْتَ لَوْنَ بَصِيرٌ ④ اللَّهُمَّ إِنَّكَ مُكَفِّرٌ بِمَا يَرَوْنَ بَصِيرٌ

* The conjunction "and" is not included in the calculation.

ERBIUM = $_{167}\text{Er}$

68	Er	167
Erbium		167.259

The element Erbium (Er) was discovered by the Swedish chemist Carl Gustaf Mosander in 1843. The letters "E" and "R" first appear together 167 letters after the beginning of the verse. Erbium has an atomic mass of 167.

Number of letters from the beginning of the verse to the letters "Er": 167

Atomic mass of the element "Er": 167

(Surat al-Hadid, 4)

هُوَ الَّذِي خَلَقَ السَّمَاوَاتِ وَالْأَرْضَ فِي سَتَةِ يَوْمٍ ثُمَّ أَسْتَوَى عَلَى الْعَرْشِ
يَعْلَمُ مَا يَأْتِي فِي الْأَرْضِ وَمَا يَعْرِجُ مِنْهَا وَمَا يَبْرِزُ مِنَ السَّمَاءِ وَمَا يَعْرِجُ
فِيهَا وَهُوَ مَعْكُرٌ إِذْ مَا كَتَبَ وَاللَّهُ مَا أَنْتَ لَوْنَ بَصِيرٌ ④ اللَّهُمَّ إِنَّكَ مُكَفِّرٌ بِمَا يَرَوْنَ بَصِيرٌ

NEODYMIUM = ₆₀Nd

60		2
Nd		6
Neodymium	2	
144.242		

The Australian scientist Carl F. Auer von Welsbach succeeded in obtaining the element Neodymium (Nd) in 1885. There are 60 letters between the first time the letters "N" and "D" appear together in Surat al-Hadid and the end of the verse. This figure is the atomic number of the element Nd.

Number of letters between the letters "Nd" and the end of the verse: 60

Atomic number of the element "Nd": 60

(Surat al-Hadid, 19)

وَالَّذِينَ أَنْتُمْ بِهِ وَرُسُلِهِ أُولَئِكَ هُمُ الظَّاهِرُونَ وَالشَّهِدَةُ
 عِنْ دِيْنِهِمْ لَا يُجْزِي هُنْ وَنُورُهُنَّ وَالَّذِينَ كَفَرُوا وَأَكْذَبُوا
 بِإِيمَانِهِمْ أُولَئِكَ أَصْحَابُ الْجَحِيْمِ ۝ إِنَّمَا أَنْهَا كُبُوْتُهُمْ الَّذِينَ

VANADIUM = ₂₃V

The element Vanadium (V) was discovered in 1801 by the Mexican scientist Andres Manuel del Rio and by the Swedish chemist Nils Gabriel Sefstrom in 1830. Vanadium is one of the fundamental elements in the body. There are 23 letters to the end of the verse from the letter V. This figure represents the atomic number of Vanadium.

Number of letters from the letter "V" to the end of the verse: 23

Atomic number of the element "V": 23

(Surat al-Hadid, 1)

سَجَّلَ لَهُ مَا فِي السَّمَاوَاتِ وَالْأَرْضِ وَهُوَ أَعْلَمُ الْحَكِيمِ ۝ لَهُ مِنْكُمْ

GALLIUM = $_{69}\text{Ga}$

31	28
Ga	18
Gallium	3
69.723	

The French chemist Paul Emile Lecoq de Boisbaudran discovered the element Gallium (Ga) in 1875 using spectral bands. Gallium is used in such spheres as electronics and once again, in the production of medicine. There are 69 letters to the end of the verse from the point at which the letters "G" and "A" appear together in Surat al-Hadid. This number – 69 – is also the atomic number of Gallium.

Number of letters to the end of the verse from the letters "Ga": 69

Atomic number of the element "Ga": 69

(Surat al-Hadid, 27)

وَرَحْكَةٌ وَرَهْبَانِيَّةٌ إِنَّدُعُوهُمَا كَيْفَ بَنَاهَا عَلَيْهِمْ
 إِلَّا ابْتَغَاهُمْ رِضْوَانِ اللَّهِ فَلَا زَوْهَارَ حَسْنَى دِعَاهُمْ فَأَيَّتَنَّ الَّذِينَ
 أَمْنَوْا مِنْهُمْ أَجْرَهُمْ وَكَيْفَ مِنْهُمْ قَارِسُونَ ⑤

NITROGEN = $_{14}\text{N}$

7	25
N	
Nitrogen	
14.0067	

Nitrogen (N), discovered by the Scottish scientist Daniel Rutherford in 1772, makes up 78% of the atmosphere. It is also present in the Sun and various stars in the universe. Nitrogen occupies an important place in the structures of living things and is found in such vital components as protein and nucleic acid. There are 14 letters from the letter "N" in Surat al-Hadid to the end of the verse. 14 is also the atomic number of Nitrogen. There

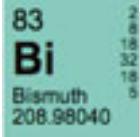
are 7 letters between the second and third letters "N" – it is worthy of note that this is also the atomic number of Nitrogen.

Number of letters from the letter "N" to the end of the verse: 14
Atomic number of the element "N": 14

(Surat al-Hadid, 3)

الْأَوَّلُ وَالآخِرُ وَالظَّاهِرُ وَالبَاطِنُ وَهُوَ كُلُّ شَيْءٍ عَلَيْهِ ۝

BISMUTH = ₈₃Bi

Bismuth (Bi) is one of the elements referred to in the Qur'an hundreds of years ago. (Allah knows the truth.) A rare element, Bismuth is used in a wide range of fields, from medicine to nuclear reactors and from cosmetics to electric circuits. In Surat al-Hadid, there are 83 letters between the points where the letters "B" and "I" appear together.

Number of letters between the letters "Bi": 83
Atomic number of the element "Bi": 83

(Surat al-Hadid, 7-8)

وَيُوجَّهُ الْمَهَادُ فِي أَتَّىٰ لِ وَهُوَ عَلَيْهِ مِنَ الصُّدُورِ ۝ أَمْوَالُ اللَّهِ
وَرَسُولِهِ وَأَنْفَقُوا مَا جَعَلَكُمْ سَخْلَانِينَ فِيهِ قَالَذِينَ أَمْنَوْا نَفْسَكُمْ
وَأَنْفَقُوا مِمْمَّا لَمْ يُنْهَا ۝ وَمَا لَكُمْ لَا تُؤْمِنُونَ بِاللَّهِ

CHROMIUM = ₂₄Cr

24	
Cr	
Chromium	
51.9961	

Chromium (Cr) was discovered in 1797 by Louis-Nicolas Vauquelin. There are a total of 24 words between the first and second appearances, consecutively, of the letter C and R in Surat al-Hadid. Therefore, it is noteworthy that the atomic number of Chromium is 24.

Number of words between the letters "Cr": 24

Atomic number of the element "Cr": 24

(Surat al-Hadid, 4)

هُوَ الَّذِي خَلَقَ السَّمَاوَاتِ وَالْأَرْضَ فِي سَنَةٍ آتَاهُ مُرَانَتَهُ عَلَى التَّرْسِيرِ
 يَعْلَمُ مَا يَطْلُبُ فِي الْأَرْضِ وَمَا يَغْرِبُ مِنْهَا وَمَا يَنْزَلُ مِنَ السَّمَاءِ وَمَا يَعْرِجُ
 فِيهَا وَهُوَ مَعْلُومٌ بِأَنَّ مَا كَنَّهُوا وَاللَّهُ يَعْلَمُ لَوْلَا بِهِمْ ① لَهُ مُلْكُ السَّمَاوَاتِ وَالْأَرْضِ

ASTATINE = ₈₅At

85	
At	
Astatine	
(209.9871)	

The element Astatine (At) was discovered by three scientists in 1940. As with other elements, its atomic number appearing in the Surah is one of the miracles of the Qur'an. There are 85 letters between the second and third appearances side by side of the letters A and T, which represent Astatine. This figure is at the same time the atomic number of Astatine.

Letters between the letters "At": 85

Atomic number of the element "At": 85

(Surat al-Hadid, 1-3)

سَجَّعَ لِلَّهِ مَا فِي السَّمَاوَاتِ وَالْأَرْضِ وَهُوَ أَعْزَمُ الْكَوْنِ ◇
السَّمَاوَاتِ وَالْأَرْضِ يُحِبِّي وَيُبْغِي وَهُوَ عَلَى كُلِّ شَيْءٍ قَدِيرٌ ◇
الْأَوَّلُ وَالآخِرُ وَالظَّاهِرُ وَالْأَبْاطِينُ وَهُوَ بِكُلِّ شَيْءٍ عَلِيمٌ ◇
هُوَ الَّذِي خَلَقَ السَّمَاوَاتِ وَالْأَرْضَ فِي سَهَّةٍ إِذَا مَا شَاءَ رَبُّكَ عَلَى الْفَرْثَادِ

LITHIUM = $_6\text{Li}$

3	$\frac{2}{1}$
Li	Lithium 6.941

The Swedish chemist Johan August Arfwedson discovered the element Lithium (Li) in 1817. This element represents some 0.002% of the Earth's crust. Lithium is required by many industrial companies and is also used in a wide range of other fields - such as manufacturing batteries, freezers and artificial rubber and also in the production of medicine.

Interestingly, there are 6 words between the first time the letters "L" and "i" appear side by side in Surat al-Hadid and the beginning of the verse. This figure - 6 - is also the atomic number of Lithium.

*Number of words between the beginning of the verse and the letters "Li": 6
Atomic mass of the element "Li": 6*

(Surat al-Hadid, 10)

وَمَالِكُ الْأَشْفَقُوا فِي سَبِيلِ اللَّهِ وَفِيهِ مِيرَاثُ السَّمَاوَاتِ وَالْأَرْضِ
لَا يَسْتَبُوا مِنْكُمْ مَنْ أَنْفَقَ مِنْ قَبْلِ التَّسْجِنَةِ وَقَاتَلَ أَوْ لَنَدَ أَعْظَمُ
ذَرَجَةً مِنَ الَّذِينَ آنْفَقُوا مِنْ بَعْدِهِ وَقَاتَلُوا أَوْ كَفَرُوا وَعَدَ اللَّهُ
الْحُسْنَى وَاللَّهُ إِعْلَمُ بِمَا تَعْمَلُونَ جَبَرُ ◇ مِنَ الَّذِينَ يُشْرَكُونَ اللَّهُ

HAFNIUM = $_{178}\text{Hf}$

72	Hf
Hafnium	178.49

The Dutch physicist Dirk Coster and the Hungarian chemist Georg de Hevesy discovered the element Hafnium (Hf) in 1923. Particular use is made of it in nuclear reactors. The element is also found in the Sun's atmosphere.

There are 178 words between the beginning of Surat al-Hadid and where the letters "H" and "F" appear consecutively. Hafnium's atomic mass is 178.

Number of words from the beginning of the Surah until the letters "Hf": 178

Atomic mass of the element "Hf": 178

* The conjunction "and" was not included in the calculation.

(Surat al-Hadid, 11)

فَرِضَّا حَكَنْ فِي صَاعِدَةٍ لَهُ وَلَهُ أَجْرٌ كَبِيرٌ ۝

INDIUM = $_{114}\text{In}$

49	In
Indium	114.818

The element Indium (In) was first discovered in 1863 by the scientists Hieronymus Theodor Richter and Ferdinand Reich. Discovered hundreds of years after the revelation of the Qur'an, Indium is found in very small quantities in nature.

There are 114 words from the beginning of Surat al-Hadid to where the letters "I" and "N" appear side by side. This figure is also the atomic mass of Indium.

Number of words between the beginning of the Surah and

the appearance of the letters "In": 114

Atomic mass of the element "In": 114

* The conjunction "and" was not included in the calculation.

(Surat al-Hadid, 8)

إِنَّكُمْ مُؤْمِنُونَ ⑤ هُوَ الَّذِي يَرِدُ عَلَى عَبْدِهِ آيَاتٍ بَيْنَكُمْ

STRONTIUM = $_{87}^{Sr}$

38	2
Sr	18
Strontium	18
87.62	2

Non-radioactive Strontium was first discovered in Scotland in 1790 by Adair Crawford and William Cruikshank. There are 87 words between the beginning of Surat al-Hadid and where the letters "S" and "R" appear together. 87 is the atomic mass of Strontium.

Number of words between the beginning of the Surah and the letters "Sr": 87

Atomic mass of the element "Sr": 87

* The conjunction "and" was not included in the calculation.

(Surat al-Hadid, 7-8)

وَرَسُولُهُ وَأَنْفَقُوا مَا جَاءُوكُمْ مُسْخَلِبِينَ فِيهِ فَالَّذِينَ أَنْتُمْ إِنَّمَا
وَأَنْفَقُوا مِمَّا لَمْ يُنْهَا كُلُّ أُخْرَى كَبِيرٌ ⑥ وَمَا لَكُمْ لَا تُؤْتُمُونَ بِاللَّهِ
وَالرَّسُولُ يَذْعُوكُمْ لَنْ تُؤْمِنُوا بِرَبِّكُمْ وَقَدْ أَخْذَمْتُ أَنْتُمْ

ACTINIUM = $_{89}^{Ac}$

89	2
Ac	18
Actinium	18
(227)	2

Discovered in 1899 by the French scientist Andre Debierne, Actinium (Ac) is a rare, radioactive element. This element, which emits blue rays in the dark, is a glowing white-silver in color. There are 89 words from the beginning of Surat al-Hadid to the first time the letters "A" and "C" appear together. That figure is also the atomic number of the element Actinium.

Number of words from the beginning of the Surah to the letters "Ac": 89

Atomic number of the element "Ac": 89

(Surat al-Hadid, 7)

وَيُوحِّي إِلَيْهِمْ بِدَاتِ الصُّدُورِ ۝ أَمْنُوا بِاللهِ
وَرَسُولِهِ وَأَنفَقُوا مَا جَعَلَكُمْ سَخْلَيْنَ فِيهِ فَالَّذِينَ آتَيْنَاكُمْ
وَأَنفَقُوا مِثْمَاثِلَهُ أَجْرٌ كَبِيرٌ ۝ وَمَا لَكُمْ لَا تُؤْمِنُونَ بِاللهِ

* The conjunction "and" was not included in the calculation.

THORIUM = ₉₀Th

90	2
Th	18
Thorium	32
232.03806	18
	2

Thorium (Th) is a radioactive element discovered in 1828 by the Swedish chemist Jons Jacob Berzelius. It is used as a source of energy in nuclear devices.

The atomic number of the element Thorium is 90. There are 90 words between the beginning of Surat al-Hadid and the first time the letters "T" and "H" appear side by side. This may also be too strong a link to be a mere coincidence.

Number of words between the beginning of the Surah and the letters "Th": 90

Atomic number of the element "Th": 90

* The conjunction "and" was not included in the calculation.

(Surat al-Hadid, 7)

وَيُوحِّي إِلَيْهِمْ بِدَاتِ الصُّدُورِ ۝ أَمْنُوا بِاللهِ
وَرَسُولِهِ وَأَنفَقُوا مَا جَعَلَكُمْ سَخْلَيْنَ فِيهِ فَالَّذِينَ آتَيْنَاكُمْ
وَأَنفَقُوا مِثْمَاثِلَهُ أَجْرٌ كَبِيرٌ ۝ وَمَا لَكُمْ لَا تُؤْمِنُونَ بِاللهِ

LUTETIUM = $_{71}\text{Lu}$

71	2
Lu	18
Lutetium	32
174.9668	2

Lutetium (Lu) was discovered in 1907 by Auer von Welsbach and Georges Urbain. There are 71 words from the beginning of Surat al-Hadid to the letters L and U that represent the element. The atomic number of Lutetium (Lu) is also 71.

Number of words from the beginning of the Surah to the letters "Lu": 71

Atomic number of the element "Lu": 71

* The conjunction "and" was not included in the calculation.

(Surat al-Hadid, 5)

فِيهَا وَهُوَ مَعْكُنْدَةٌ إِذْ نَمَّا كَنْدَةً وَاللَّهُ يُمَارِضُ إِذَا نَمَّا كَنْدَةً بَسِيرٌ ۝ لَهُ مَلْكٌ
 السَّمَاوَاتِ وَالْأَرْضِ وَإِلَيَّ اللَّهُ تُرْجَعُ الْأَمْوَالُ ۝ يُولَى أَنْلَبَ فِي النَّارِ

NICKEL = $_{58}\text{Ni}$

The element pure nickel (Ni) was first isolated in 1751 by the Swedish scientist Axel Fredrik Cronstedt. Harder than iron, nickel is best-known for being incredibly resistant to rust and decay. Nickel is used in many fields, from high-resistance industrial equipment to metal coins.

There are 58 letters between the first time the letters "N" an "I" appear in Surat al-Hadid and the end of the verse. That figure is also the atomic mass of Nickel.

Number of words between the end of the verse and the letters "Ni": 58

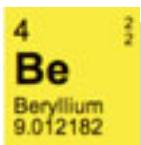
Atomic mass of the element "Ni": 58

* The conjunction "and" was not included in the calculation.

(Surat al-Hadid, 27)

وَرَحْمَةً وَرَهْبَابَةً إِنَّدُعُهَا مَا كَتَبْنَا هَا عَلَيْهِ
إِلَّا ابْتِغَاهُمْ وَضَوَانِ اللَّهِ فَأَرَأَعْنَاهُ سُجْنًا فَأَنْتَ الَّذِينَ
أَمْنُوا مِنْهُمْ أَبْرَهُمْ وَكَيْرَمُهُمْ قَاسِقُوتَ ⑥

BERYLLIUM = $_9Be$



Beryllium (Be) was discovered by Louis-Nicolas Vauquelin in 1798. This element, which is actually very rare in nature, is used in nuclear devices, rockets and space vehicles.

There are 9 words between where the letters "B" and "E" appear together and the end of the verse, and that figure also constitutes the atomic mass of Beryllium.

Number of words between the letters "Be" and the end of the verse: 9

The atomic mass of the element "Be": 9

* The conjunction "and" was not included in the calculation.

(Surat al-Hadid, 10)

وَمَا الْكُفَّارُ بِاللَّهِ وَقَوْمٌ مِنْ بَشَرٍ إِذَا
لَا يُتَّسِّرُوا مِنْهُمْ مِنْ أَنْفُقَةٍ قَبْلِ النَّصْرِ وَفَاتَهُمْ
وَرَجَمَهُ مِنَ الَّذِينَ آنْفَقُوا مِنْ نَعْدٍ وَفَاتَهُمْ وَمَكْلَهُ
الْخُنْفُ وَاللَّهُ يَعْلَمُ مَا لَوْزَجَيْدُ ⑦ مَنْذَ الَّذِي يُبَرِّضُ اللَّهَ



SODIUM = ₁₁Na

11	2
Na	8
Sodium	1
22.98976928	

Humphry Davy discovered the element Sodium (Na) in 1807, using electrolysis. Sodium atoms are found in a great many objects - from the salt we eat to the stars in space. The sodium atoms in the cells in the human body perform a vital function. The presence of a certain amount of sodium in the human body is essential for a normal flow of water between cells and bodily fluids, tissue formation and muscle contraction.

There are 11 words between the point where the letters "N" and "A" occur together in Surat al-Hadid and the end of the verse. That figure is identical to Sodium's atomic number.

Number of words between the letters "Na" and the end of the verse: 11

Atomic number of the element "Na": 11

* The conjunction "and" was not included in the calculation.

(Surat al-Hadid, 9)

إِنَّكُنْتُمْ مُؤْمِنَ⑤ هُوَ الَّذِي يَرِئُ عَبْدَهُ أَيَّاتٍ بَيْنَكُنْ

NIOBIUM = ₄₁Nb

41	2
Nb	8
Niobium	1
92.90638	

The element niobium (Nb) was discovered by the British chemist Charles Hatchett in 1801. This element, which is not found abundantly in nature by any means, is greatly sought-after. It is used in nuclear reactors and materials resistant to high wavelength radiation.

The number of words between the places in Surat al-Hadid where the letters "N" and "B" occur together is also that of Niobium's atomic number – 41.

Number of words between the letters "Nb": 41

Atomic number of the letter "Nb": 41

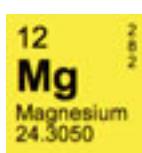
Miracles Of The Quran

* The conjunction "and" was not included in the calculation.

(Surat al-Hadid, 4 and 8)

فِيهَا وَهُوَ مَعْكُمْ إِذْ مَا كُنْتُمْ وَاللَّهُ يَعْلَمُ مَا تَعْمَلُونَ بَسِيرٌ ۚ أَلَمْ يَكُنْ
الشَّمْوَاتُ وَالْأَرْضُ وَإِلَيَّ اللَّهِ تُرْجَعُ الْأَمْوَارُ ۚ يُولِي اللَّهُ فِي النَّارِ
وَيُولِي النَّارَ فِي اللَّيلِ وَهُوَ عَلِيمٌ بِذَاتِ الصُّدُورِ ۚ أَبْيَأُوا لِلَّهِ
وَرَسُولِهِ وَأَنْفَقُوا مَا جَعَلَكُمْ مُسْخَلِفِينَ فِيهِ قَاتِلُونَ إِذْ أَنْوَاهُمْ
وَأَنْفَقُوا لِلَّهِ أَجْرًا كَبِيرًا ۚ وَمَا لَكُمْ لَا تُؤْمِنُونَ بِاللَّهِ

MAGNESIUM = ₁₂Mg



The element Magnesium (Mg) was discovered by the British chemist Sir Humphry Davy. Magnesium, discovered centuries after the revelation of the Qur'an, is one of the most common elements in the Earth's crust. It appears in many places, from sea water to the human body. It is an element of vital importance to living things.

There are 12 words between the places in Surat al-Hadid where the letter Mg appear together. That figure—12—is also the atomic number of Magnesium.

Number of words between the letters "Mg" in the Surah: 12

Atomic number of the element "Mg": 12

* The conjunction "and" was not included in the calculation.

(Surat al-Hadid, 20-21)

شَيْكُونْ حَطَامًا وَفِي الْآخِرَةِ عَذَابٌ شَدِيدٌ وَمَغْفِرَةٌ
مِنَ اللَّهِ وَرِحْمَانٌ وَمَلَكِيَّةُ الدُّنْيَا إِلَامَات٤ عَزُورٌ ۚ
سَاقُوا إِلَى مَغْفِرَةٍ مِنْ رَبِّكُمْ وَجْهَةٌ عَرْضُهَا كَفَرٌ فِي السَّعَادِ

DYSPROSIUM = $_{162}^{\text{Dy}}$

66	Dy
Dysprosium	2
162.500	

Dysprosium (Dy) was discovered in 1886 by the French scientist Paul Emile Lecoq de Boisbaudran. Its atomic mass is 162. The number of words between the places in Surat al-Hadid where the letters "Dy" appear together is also 162.

(Surat al-Hadid, 2)

الثَّنَوَاتِ وَالْأَرْضِ يُخْبِي وَجْهَتْ وَهُوَ عَلَىٰ كُلِّ شَيْءٍ قَدِيرٌ ۚ هُوَ
الْأَوَّلُ وَالآخِرُ وَالظَّاهِرُ وَالْأَبْاطِنُ وَهُوَ كُلُّ شَيْءٍ عَلَيْهِ ۚ
هُوَ الَّذِي خَلَقَ الثَّنَوَاتِ وَالْأَرْضَ فِي سَمَاءٍ تَامَّ رِزْنَتُهُ عَلَىٰ الْعَرْضِ
يَعْلَمُ مَا يَطِيقُ فِي الْأَرْضِ وَمَا يَغْنِي مِنْهَا وَمَا يَرِزِّلُ مِنَ السَّمَاءِ وَمَا يَعْنِي
فِيهَا وَهُوَ مَعْكُنُونَ مَكْنُونٌ وَاللَّهُ إِمَّا يَعْلَمُونَ بِصَيْرَةٍ ۖ لَهُ مَلَكٌ

(Surat al-Hadid, 11)

إِنْ كُنْتُمْ مُؤْمِنِينَ ۚ هُوَ الَّذِي يُنَزِّلُ عَلَىٰ عَبْدِهِ آيَاتٍ بَيِّنَاتٍ
يُعِزِّزُكُمْ مِنَ الظُّلُمَاتِ إِلَى النُّورِ ۖ وَإِنَّ اللَّهَ يَكْرَهُ الرَّجَسَ ۚ
وَمَا الْكُوَافِرُ فِي سَبِيلِ اللَّهِ وَلَهُ بِهِرَاثُ الثَّنَوَاتِ وَالْأَرْضِ
لَا يَسْتَبُوا مِنْكُمْ مِنْ أَنْفُقَهُمْ قَبْلِ التَّسْخِيفِ وَفَاقِلُوا إِلَيْكُمْ أَعْظَمُ
دَرَجَاتِهِ مِنَ الْأَدْيَارِ أَنْفَقُوهُمْ ثُمَّ يَنْهَا وَقَاتِلُوا وَكَلَّا وَعَدَ اللَّهُ
الْحَسْنَىٰ وَاللَّهُ إِمَّا يَعْلَمُ لَهُ جَهَنَّمُ ۖ مَنْذَ الَّذِي يُعْرِضُ اللَّهَ
فَرِضَاحَتْ فَيُضَاعِفَهُ لَهُ وَلَهُ أَجْرٌ كَبِيرٌ ۚ

Number of words between the letters "Dy" in the Surah: 162

Atomic mass of the element "Dy": 162

* The conjunction "and" was not included in the calculation.



30	Zn	18.2
Zinc	65.38	

The metal Zinc (Zn) appears in many structures—from the Earth's crust to the living creatures which inhabit our planet. For example, it performs vitally important functions by serving in enzymes and blood cells in the human body.

There are 65 words between the places in Surat al-Hadid where the letters Zn appear together. The atomic mass of Zinc is also 65.

The number of words between the letters "Zn" in the Surah: 65

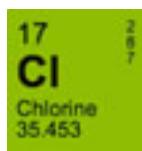
The atomic mass of the element "Zn": 65

* The conjunction "and" was not included in the calculation.

(Surat al-Hadid, 2 and 11)

يَعْلَمُ مَا يَطِئُ فِي الْأَرْضِ وَمَا يَنْخُجُ مِنْهَا وَمَا يَنْزِلُ مِنْ السَّمَاءِ وَمَا يَنْعِنْجُ
فِيهَا وَهُوَ مَعْكُرٌ إِذْ مَا كَتَبَهُ وَاللَّهُ إِنَّمَا تَنَزَّلُونَ بَصِيرٌ ۝ لَهُ مَلَكُ
الشَّعُوبِ وَالْأَرْضِ ۝ وَإِلَيْهِ تُرْجَعُ الْأُمُورُ ۝ فَيُلَمِّ الْأَيَّلَ فِي النَّهَارِ
وَيُوَلِّ الْأَيَّلَ فِي اللَّيلِ ۝ وَهُوَ عَلِيمٌ بِذَاتِ الصُّدُورِ ۝ أَنْتُوا إِلَيْهِ
وَرَسُولِهِ وَأَنْقَفُوا مَا يَحْكِمُكُمْ مُسْخَلِفِينَ فِيهِ ۝ فَالَّذِينَ آتُوكُمْ
وَأَنْقَفُوا هُنَّ أَنْجَرُكُمْ ۝ وَمَا الْحَكْمُ لِأَنْوَافِنُوْنَ بِاللَّهِ
وَالرَّسُولُ يَدْعُوكُمْ لِتُؤْمِنُوا بِرَبِّكُمْ ۝ وَقَدْ أَخْدَمْتَ أَفْلَامَ
إِنْ كُنْتُمْ مُؤْمِنِينَ ۝ هُوَ الَّذِي يَنْزِلُ عَلَى عَبْدِهِ آيَاتٍ بَيِّنَاتٍ

CHLORINE = ₃₅Cl



The Swedish scientist Carl Wilhelm Scheele first obtained the element Chlorine (Cl) in 1774, some twelve centuries after the Qur'anic revelation. Chlorine is most used in killing bacteria in drinking water and in swimming pools – it is known for its distinct chemical smell. Chlorine is used in a wide range of fields, from drug manufacture to paints - and from petrol products to cleaning products.

There are 35 words between the first and last time the letters "C" and "L" appear together. That figure is also the atomic mass of Chlorine.

Number of words between the first and last letters "Cl" in the Surah: 35

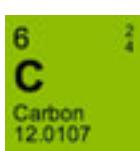
Atomic mass of the element "Cl": 35

* The conjunction "and" was not included in the calculation.

(Surat al-Hadid, 4 and 6)

يَعْلَمُ مَا تَنْهَىٰ فِي الْأَرْضِ وَمَا تَعْنِي
 مِنْهَا وَمَا يَرْزُلُ مِنَ السَّمَاءِ وَمَا يَعْرِي
 فِيهَا وَهُوَ مَعْكُمْ إِذْ نَمَكِّنُهُ وَاللَّهُ عَمَّا يَعْمَلُونَ بِصَرِيرٍ ۚ لَهُ مُلْكُ
 السَّمَاوَاتِ وَالْأَرْضِ ۖ وَإِلَيْهِ تُرْجَعُ الْأُمُورُ ۚ يُؤْلِمُ اللَّيلَ فِي النَّهَارِ
 وَيُوَلِّ النَّهَارَ فِي اللَّيلِ ۗ وَهُوَ عَلَيْهِ مِنَ الصَّدُورِ ۚ أَمْنَوْا بِالشَّوَّافِ

CARBON = ₁₂C



Carbon (C) occupies an extremely important place in the structure of living things and exists in a wide range of substances in the world of nature. Carbon atoms are present in very different compounds, from the carbon dioxide released during respiration to the most precious diamonds.

Miracles Of The Quran

There are 12 words between the first and last letters "C" in Surat al-Hadid. That figure also corresponds to the atomic mass of Carbon.

*Number of words between the first and last letters "C" in the surat: 12
The atomic mass of the element "C": 12*

* The conjunction "and" was not included in the calculation.

(Surat al-Hadid, 4)

يَعْلَمُ مَا تَحْكُمُ فِي الْأَرْضِ وَمَا يَعْرِجُ مِنْهَا وَمَا يَرِزُقُ مِنَ السَّمَاءِ وَمَا يَعْرِجُ
فِيهَا وَهُوَ مَعْكُوكٌ إِذْ مَا كَتَبَتْ وَاللَّهُ يُعْلَمُ مَا تَصْنَعُونَ بَصِيرٌ ۚ لَهُ مَلَكٌ

CERIUM = ₁₄₀ Ce

58	
Ce	
Cerium	
140.116	
	2 18 19 2

Cerium (Ce) was discovered in 1803 by the geologist Wilhelm von Hisinger and chemist Jons Berzelius, both from Sweden — and independently of them, by the German chemist Martin Klaproth.

There are 140 words between the first and last occurrences, side by side, of the letters "C" and "E" in Surat al-Hadid. 140 is also the atomic mass of the element Cerium.

*Number of words between the first and last letters "Ce" in the Surah: 140
Atomic mass of the element "Ce": 140*

* The conjunction "and" was not included in the calculation.

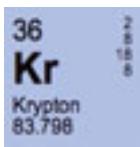
(Surat al-Hadid, 5 and 7)

السَّمَاوَاتِ وَالْأَرْضَ قَرَّإِ اللَّهُ تُرْجِعُ الْأَمْوَالَ ۝ يُوْلِي الْيَنْلَ فِي النَّارِ
وَيُوْلِي النَّارَ فِي الْيَنْلِ ۝ وَهُوَ عَلَيْهِ مِنَ الصَّدُورِ ۝ أَيْنُوا إِلَيْهِ
وَرَسُولِهِ وَأَنْفَقُوا إِمَامًا حَلَكُمْ مُسْخَلَقِينَ فِيهِ قَالَ الَّذِينَ آتَيْنَاهُمْ
وَأَنْفَقُوا مِثْمَةً أَجْرَ كَبِيرٌ ۝ وَمَا لَكُمْ لَا تُؤْمِنُونَ بِاللَّهِ

(Surat al-Hadid, 13)

بِشَرِيكِ الْيَوْمِ جَمِيعَاتِ الْجَبَرِيِّ مِنْ مُجْنِحَاتِهِ الْأَنْهَارِ حَالِيْرِيِّ فِيهَا
ذَلِكَ هُوَ الْقَوْزُ الْمَعْلَمِيُّ ۝ يَوْمَ يَقُولُ الْلَّهُ فَقَوْنَ وَالْأَنْفَاقَ
لِلَّذِينَ آتَيْنَا الظَّرْفَ وَأَنْقَسْنَ مِنْ نُورِ كُمْ قِيلَ ازْجِمُوا وَرَاءَكُمْ

KRYPTON = ₈₃ Kr



The element Krypton (Kr) was discovered by the British chemists Morris W. Travers and Sir William Ramsay in 1898. There are 83 words between the first and last occurrences, side by side, of the letters "K" and "R" in Surat al-Hadid.

*Number of words between the first and last letters "Kr" in the Surah: 83
Atomic mass of the element "Kr": 83*

* The conjunction "and" was not included in the calculation.

(Surat al-Hadid, 7 and 11)

وَأَنْفَقُوا مِمَّا أَجْرَيْتُهُ كَبِيرٌ ۝ وَمَا لَكُمْ لَا تُؤْمِنُونَ بِاللَّهِ
وَالرَّسُولِ يَذْعُوكُمْ إِنَّمَا مِنْ وَرَبِّكُمْ وَقَدْ أَخْذَمْتُكُمْ
إِنْ كُنْتُمْ مُّؤْمِنِينَ ۝ هُوَ الَّذِي يُنَزِّلُ عَلَىٰ عَبْدِهِ آيَاتٍ يَتَبَاتِئُ
بِهِ ۝ إِنَّمَا يُعْلَمُ مِنَ الظُّلُمَاتِ إِلَى النُّورِ ۝ وَإِنَّ اللَّهَ يَعْلَمُ كُلَّ رَوْفٍ رَّحِيمٍ ۝
وَمَا لَكُمْ أَنْتُنْ فُوقُوا فِي سَبِيلِ اللَّهِ وَلِهِ مِيراثُ السَّمَاوَاتِ وَالْأَرْضِ
لَا يَسْبُحُ بِنِعْمَتِكُمْ مِنْ نَفْقَهٍ مِنْ قَبْلِ الْقَسْطِ وَقَاتَلُوا إِلَيْكُمْ أَعْظَمُ
ذَرَاجَةٍ مِنَ الَّذِينَ أَنْفَقُوا مِمَّا بَعْدُ وَقَاتَلُوا أَوْ كَفَرُوا وَعَدَ اللَّهُ
الْحُسْنَىٰ وَاللَّهُ عَلَىٰ نَعْمَلُوا زَجَرٌ ۝ مَرَدًا الَّذِي يُغْرِي مِنْ أَنْفُسِ
قَرْمَاسًا حَسَنًا فَإِنَّمَا عَفَنَهُ لَهُ وَلَمْ يَأْجُرْهُ كَبِيرٌ ۝

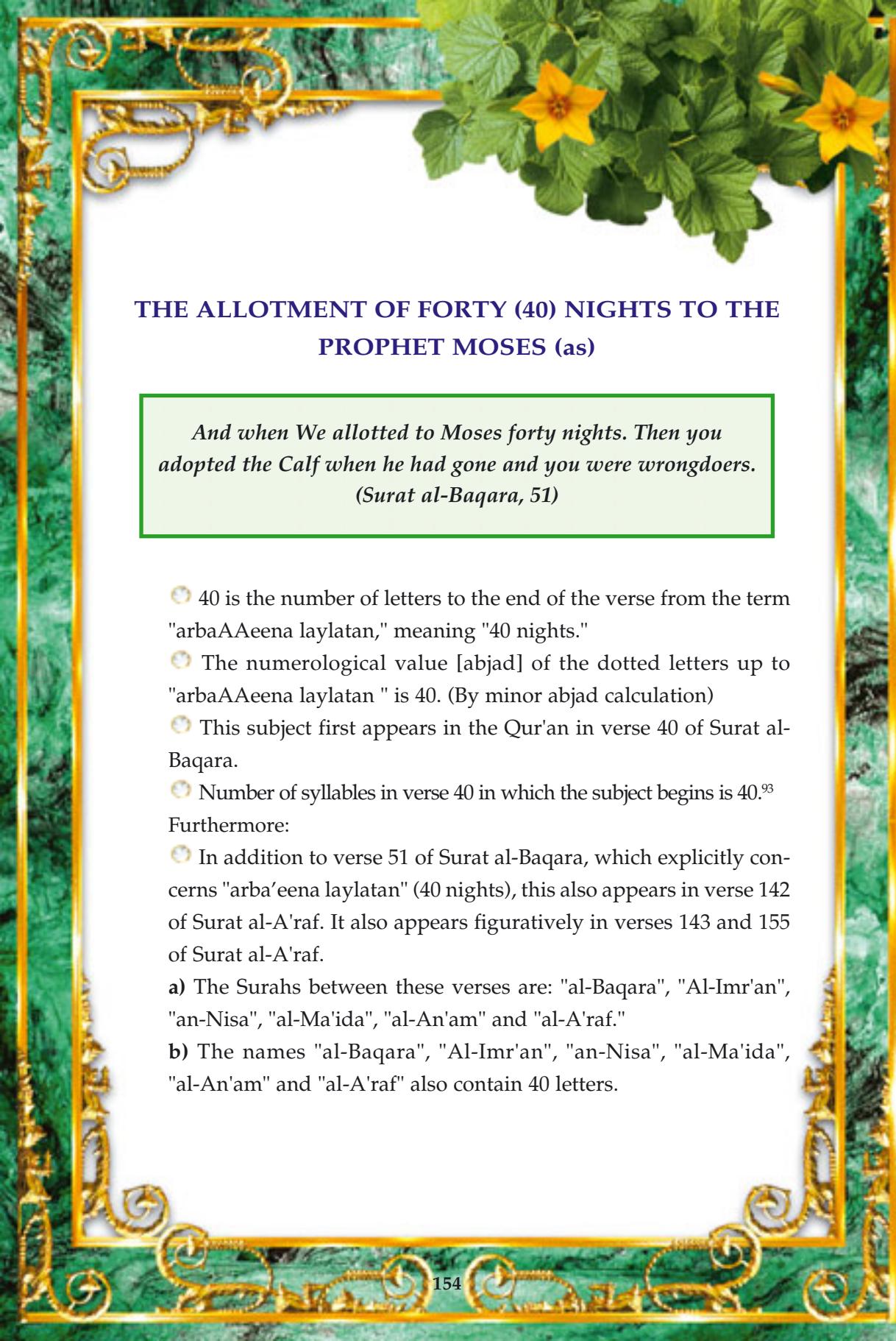
PART. V

NUMBERS OF SIGNIFICANCE IN THE QUR'AN

This section contains the results of various calculations performed on Surahs in which numerical terms appear. The same numbers obtained as a result of different calculations in the relevant Surah are also extremely fascinating. This section of the book deals with various types of calculation - such as the numbers of syllables and letters in the Surahs, the types of letter or their numerological values [abjad] —and reveals surprising similarities in the resultant numbers. The calculations in this section are not open to discussion and nor are they a matter for debate - anybody who performs the same calculations will arrive at the same figures as those which are quoted here. References are provided throughout this section of the book so that any interested person is entitled to double-check the relevant Qur'anic verses.

In addition to the sublime theological wisdom and religious knowledge of the Holy Qur'an, it also contains very rich and extraordinary numerical references. In verse 29 of Surat an-Naba' our Lord says "... We have recorded all things in writing." And verse 28 of Surat al-Jinn reads "... (Allah) has counted the exact number of everything." These miraculous numerical references obtained from the Holy Qur'an are also manifestations of one of our Almighty Lord's Ninety-Nine Names. The title "Al-Muhsey," or "He Who knows the number of everything, even if it is infinite".

* (This section is based on Ahmet Maraşlı's book *Kuran'da Sırılı Diziliş* [Mysterious Aligning in the Qur'an], (Okul Press, Istanbul, 2003)



THE ALLOTMENT OF FORTY (40) NIGHTS TO THE PROPHET MOSES (as)

And when We allotted to Moses forty nights. Then you adopted the Calf when he had gone and you were wrongdoers.
(Surat al-Baqara, 51)

- ⌚ 40 is the number of letters to the end of the verse from the term "arbaAAeena laylata," meaning "40 nights."
- ⌚ The numerological value [abjad] of the dotted letters up to "arbaAAeena laylata" is 40. (By minor abjad calculation)
- ⌚ This subject first appears in the Qur'an in verse 40 of Surat al-Baqara.
- ⌚ Number of syllables in verse 40 in which the subject begins is 40.⁹³ Furthermore:
 - ⌚ In addition to verse 51 of Surat al-Baqara, which explicitly concerns "arba'eeena laylata" (40 nights), this also appears in verse 142 of Surat al-A'raf. It also appears figuratively in verses 143 and 155 of Surat al-A'raf.
 - a) The Surahs between these verses are: "al-Baqara", "Al-Imr'an", "an-Nisa", "al-Ma'ida", "al-An'am" and "al-A'raf."
 - b) The names "al-Baqara", "Al-Imr'an", "an-Nisa", "al-Ma'ida", "al-An'am" and "al-A'raf" also contain 40 letters.

TWELVE (12) FOUNTAINS SPRINGING FROM STONE

And when Moses was looking for water for his people, We said, 'Strike the rock with your staff.' Then twelve fountains gushed out from it and all the people knew their drinking place. 'Eat and drink of Allah's provision and do not go about the earth corrupting it.'

(Surat al-Baqara, 60)

- ➊ Number of words in the verse until the expression "ithnata ashrata" meaning "twelve" is 12.
- ➋ Number of dotted letters until the expression "infajarat minhu ithnata AAashrata AAaynan" meaning "the twelve fountains gushed out from it [the rock]"; 12.
- ➌ Number of types of letter used in the term "infajarat minhu ithnata AAashrata AAaynan" 12.⁹⁴

HELP FROM THREE THOUSAND (3,000) ANGELS

And when you said to the believers, 'Is it not enough for you that your Lord reinforced you with three thousand angels, sent down?' (Surat al-Imr'an, 124)

- ➊ The abjad value of the term "thalathati alafin mina almala-ikati," meaning "three thousand angels," is 3,000. (By major abjad calculation)

HELP FROM FIVE THOUSAND (5,000) ANGELS

Yes indeed! But if you are steadfast and guard against evil and they come upon you suddenly, your Lord will reinforce you with five thousand angels, clearly identified.

(Surat al-Imr'an, 125)

- ➊ The abjad value of the letters up to the first letter of the term "al-mala-ikati," meaning "angels," is 5,000. (By minor abjad calculation)

THE SENDING OF TWELVE (12) LEADERS

Allah made a covenant with the tribe of Israel and We raised up twelve leaders from among them. Allah said, 'I am with you. If you establish salat and pay zakat, and believe in My Messengers and respect and support them, and make a generous loan to Allah, I will erase your wrong actions from you and admit you into Gardens with rivers flowing under them. Any of you who are unbelievers after that have gone astray from the right way.' (Surat al-Ma'ida, 12)

- ➊ Number of letters up to the term "ithnay AAashara naqeeban," meaning "twelve leaders:" 12.
- ➋ Number of repetitions of the letters in the name "Ma'ida" (the name of the Surah) from the beginning of the verse to the term "ithnay AAashara" (twelve): 12.⁹⁵
- ➌ Verse number: 12.
- ➍ The abjad value of the first and last letters of the verse is 12.⁵⁹
(By minor abjad calculation)

THIRTY (30) NIGHTS AND TEN (10) NIGHTS BEING SET ASIDE FOR THE PROPHET MOSES (as)

We set aside thirty nights for Moses and then completed them with ten, so the appointed time of his Lord was forty nights in all. Musa said to his brother Harun, 'Be my khalif among my people. Keep order and do not follow the way of the corrupters.' (Surat al-A'raf, 142)

- ⌚ Number of syllables from "thalatheena laylatan," meaning 30 nights," to the end of the clause: 30.⁹⁶
- ⌚ Number of syllables used after "thalatheena laylatan " (30 nights) to the end of the verse: 30.⁹⁷
- ⌚ Number of syllables from the word "thalatheena" (30) to the end of the clause: 30.⁹⁸
- ⌚ Number of time the muqatt'at letters [unique combinations of letters that begin a number of Surah in the Qur'an] in the Surah (alif, lam, mim, sad) are used in the verse from the word "thalatheena " (30) to the end of the verse: 30.⁹⁹
- ⌚ Number of dotted letters up to the word "Aashr" (10): 10.
- ⌚ Number of undotted letters from the word "Aashr" (10) to the end of the clause: 10.
- ⌚ The word "Aashr" (10) appears 10 pages from the end in Surat al-A'raf.
- ⌚ The letters "alif, lam, mim and sad," the muqatt'at letters in the Surah, are used 10 times before the word "Aashr" (10).¹⁰⁰
- ⌚ 10 types of letter are used in the term "waatmamnaha biAAashrin" meaning "and then completed them with ten."¹⁰¹

*Kuran okunurken kullanılan durak işaretleriyle veya ayet sonu-ayet başı ile ayrlan ifadeler.

TWELVE (12) TRIBES AND TWELVE (12) FOUNTAINS FLOWING FROM THE ROCK

We divided them up into twelve tribes—communities. We revealed to Moses, when his people asked him for water: 'Strike the rock with your staff.' Twelve fountains flowed out from it and all the people knew their drinking place. And We shaded them with clouds and sent down manna and quails to them: 'Eat of the good things We have provided you with.' They did not wrong Us; rather it was themselves they wronged. (Surat al-A'raf, 160)

- ⦿ The letters in the term "ithnatay AAashrata" (twelve) appear 12 times up to "isnetey ashrate."¹⁰²
- ⦿ 12 types of letter are used from the term "ithnatay AAashrata " (twelve) to the end of the clause.¹⁰³
- ⦿ The letters in "ithnatay AAashrata " (twelve) appear 12 times between it and the end of the clause.¹⁰⁴
- ⦿ 12 letters comprise the words "ithnatay AAashrata " (twelve) and "isneta aşrate" (twelve).¹⁰⁵
- ⦿ 12 types of letter are used in the clause in which it appears before the term "ithnata AAashrata AAaynan " (twelve fountains).¹⁰⁶



THAT THE NUMBER OF MONTHS IN THE SIGHT OF ALLAH IS TWELVE (12)

There have been twelve months with Allah in the Book of Allah, from the day He first created the heavens and earth.

Four of them are forbidden. That is the True Religion. So do not wrong one another during them. However, fight the idolaters totally just as they fight you totally, and know that Allah is with those who guard against evil.

(Surat at-Tawba, 36)

- ➊ There are 12 syllables up to the term "ithna AAashara" (twelve).
- ➋ There are 12 dotted letters from the term "ithna AAashara" (twelve) to the end of the clause.

ASKING FOR FORGIVENESS SEVENTY (70) TIMES

You can ask forgiveness for them, or not ask forgiveness for them. Even if you asked forgiveness for them seventy times, Allah still would not forgive them. That is because they have rejected Allah and His Messenger. Allah does not guide deviant people. (Surat at-Tawba, 80)

- ➊ Total number of letters from the term "sabAAeena marratan" (seventy times) to the end of the verse: 70.¹⁰⁷
- ➋ The abjad value of the letter types used from the term "sabAAeena marratan" (seventy times) to the end of the clause is 70. (By minor abjad calculation).¹⁰⁸
- ➌ There are 70 undotted letters in this verse.¹⁰⁹

THE NUMBER OF THE YEARS AND THE RECKONING THEREOF

It is He Who appointed the sun to give radiance, and the moon to give light, assigning it phases so you would know the number of years and the reckoning of time. Allah did not create these things except with truth. We make the Signs clear for people who know. (Surah Yunus, 5)

A month in the Islamic calendar can only have 29 or 30 days. (There is no other possibility.)

- ⦿ A lunar month is 29 or 30 days. There are 29 letters in the verse up until the term "qaddarahu manazila litaAAalamoo AAadada alssineena waalhisaba," meaning "the number of years and the reckoning of time."
- ⦿ The abjad value of "al-Qamar," meaning "moon," is 29. (By minor abjad calculation)

We made the night and day two Signs. We blotted out the Sign of the night and made the Sign of the day a time for seeing so that you can seek favour from your Lord and will know the number of years and the reckoning of time. We have made all things very clear. (Surat al-Isra', 12)

One year according to the Hijri calendar lasts 354 or 355 days. (There is no other possible figure.)

- ⦿ The abjad value of the letters up to the term "litaAAalamoo AAadada alssineena waalhisaba," meaning "so you will know the number of years and the reckoning of time," is 354. (By minor abjad calculation)

THEIR INABILITY TO PRODUCE TEN (10) SUCH SURAHS

Or do they say, 'He has invented it?' Say, 'Then produce ten invented suras like this, and call on anyone you can besides Allah if you are telling the truth.' (Surah Hud, 13)

- ⌚ Variety of letters used in the clause up to the word "AAashri" (ten): 10.¹¹⁰
- ⌚ Number of dotted letters in the verse up to the word "AAashri" (ten): 10.¹¹¹
- ⌚ Number of syllables in the verse up to the expression "biAAashri suwarin mithlihi muftarayatin," meaning "then produce ten invented suras like this:" 10.¹¹²
- ⌚ Number of dotted letters up to the term "qul fa'too biAAashri suwarin mithlihi muftarayatin," meaning "Say, 'then produce ten invented suras like this': 10.
- ⌚ "Number of letters in the term "AAashri suwarin mithlihi , " meaning "ten suras like this:" 10.
- ⌚ Number of letters from the term "AAashri suwarin mithlihi " (ten suras like this) to the end of the verse: 10.
- ⌚ Variety of letters used in the term "biAAashri suwarin mithlihi," meaning "ten suras like this:" 10.¹¹³
- ⌚ The letters in the term "AAashri suwarin "(ten suras) appear 10 times up to "AAashri surah-thin."¹¹⁴

THE PROPHET JOSEPH'S (as) DREAM AND ELEVEN (11) STARS

Yusuf told his father, 'Father! I saw eleven bright stars, and the sun and moon as well. I saw them all prostrate in front of me.' (Surah Yusuf, 4)

- ⦿ There are 11 letters in the term "ahada AAashara kawkaban," meaning "eleven stars."
- ⦿ There are 11 words up to the term "ahada AAashara kawkaban." (eleven stars).
- ⦿ The letters in the term "ahada AAashara kawkaban " (eleven stars) appear 11 times up to "ahada AAashara kawkaban ".¹¹⁵

THE NUMBER OF THE HUMAN CHROMOSOME

He created man from a drop of sperm and yet he is an open challenger! (Surat an-Nahl, 4)

There are some 100 trillion cells in the body of a human adult. The cells all possess the same genetic structure. That genetic structure is also present in the chromosomes in the cell nucleus. There are 23 pairs, or 46 chromosomes, in a human cell – half from the mother and half from the father. These chromosomes also contain DNA molecules in which the characteristics of the person are recorded: hair colour, eye colour, height and other unique details which make an individual what they are. The scientific world only learned that there are 46 chromosomes in the human cell in the second half of the 20th century.

The words "manayyin" and "nutfatin" in the Qur'an refer to different

things (Surat al-Qiyama, 37). "Manayyin" is used to refer to the whole and "nutfatan" to a component thereof.

* The word "nutfatin" appears in different forms below, such as nutfatin, nutfata or nutfatan, depending on its use in the sentence or grammatical rules. But the meaning does not change.

- ⌚ The abjad value of the word "nutfatin" (nutfa) is 23. (By minor abjad calculation)
- ⌚ Variety of letters used in the Surah up to the word "nutfatin:" 23.¹¹⁶
- ⌚ Abjad value of the letters used in the verse up to the word "nutfatin:" 23. (By minor abjad calculation)¹¹⁷
- ⌚ Number of dotted letters in the Surah up to the word "nutfatin:" 46.

Then formed the drop into a clot and formed the clot into a lump and formed the lump into bones and clothed the bones in flesh; and then brought him into being as another creature.

Blessed be Allah, the Best of Creators!

(Surat al-Muminun, 14)

- ⌚ Abjad value of the word "nutfata:" 23. (By minor abjad calculation)
- ⌚ Number of letters in Surat al-Muminun from "nutfatan" in verse 13 to "nutfata" in verse 14 is 23.
- ⌚ Abjad value of the variety of letters used in the verse up to the term "nutfata:" 46.¹¹⁸ (By minor abjad calculation)
- ⌚ Abjad value of the letters belonging to the term "nutfata" up to "nutfata:" 46. (By minor abjad calculation)¹¹⁹
- ⌚ Number of letters belonging to the term "nutfata" up to "nutfata:" 46.

Allah created you from dust and then from a drop of sperm and then made you into pairs. No female becomes pregnant or gives birth except with His knowledge. And no living thing lives long or has its life cut short without that being in a Book. That is easy for Allah. (Surat al-Fatir, 11)

- ⌚ Abjad value of the term "nutfatin:" 23. (By minor abjad calculation)
- ⌚ Variety of letters used from "nutfatin" to the end of the verse: 23.¹²⁰

It is He Who created you from earth, then from a drop of sperm, then from a clot of blood, then He brings you out as infants, then so you may achieve full strength, then so you may become old men –though some of you may die before that time– so that you may reach a predetermined age and so that hopefully you will use your intellect. (Surah Ghafir, 67)

- ⌚ The abjad value of "nutfatin" is 23. (By minor abjad calculation).
- ⌚ Number of dotted letters from the word "nutfatin" to the end of the clause: 23.
- ⌚ The word "nutfatin" is the 23rd in the verse.
- ⌚ There are 23 types of letter in this verse.¹²¹
- ⌚ The abjad value of the dotted letters up to the word "nutfatin" in the verse is 46. (By minor abjad calculation)
- ⌚ There are 46 dotted letters in this verse.

... out of a sperm-drop when it spurted forth;

(*Surat an-Najm*, 46)

- ➊ The abjad value of the word "nutfatin" is 23. (By minor abjad calculation)
- ➋ The letters in the term "nutfatin" appear 46 times up to "nutfatin".¹²²
- ➌ The verse containing the term "nutfatin" is the 46th.

*We created man from a mingled drop to test him, and We made him hearing and seeing. (*Surat al-Insan*, 2)*

- ➊ The abjad value of the word "nutfatin" is 23. (By minor abjad calculation)
- ➋ The abjad value of the letters from the word "nutfatin" to the end of the clause is 23. (By minor abjad calculation)

Was he not a drop of ejaculated sperm?

(*Surat al-Qiyama*, 37)

- ➊ There are 23 types of letter between verse 35 of Surat al-Qiyama and verse 2 of Surat al-Insan.¹²³
- ➋ There are 23 words having letters from the clause "nutfa" in verse 37 of Surat al-Qiyama up to "nutfa" in verse 2 of Surat al-Insan.¹²⁴

THE ANGLES IN HONEYCOMBS

Your Lord revealed to the bees: 'Build dwellings in the mountains and the trees, and also in the structures which men erect. Then eat from every kind of fruit and travel the paths of your Lord, which have been made easy for you to follow.' From inside them comes a drink of varying colours, containing healing for mankind. There is certainly a Sign in that for people who reflect. (Surat an-Nahl, 68-69)

Working as a team, honey bees build hexagonal cells in their hives and fill the cells with honey under the leadership of the Queen Bee. Mathematicians have concluded that the hexagon is the most perfect and efficient shape these bees could have "chosen" for their special work. For example, if the cells in the combs were pentagonal or octagonal, then their edges would not weld together perfectly. Consequently, many parts of the comb would therefore remain unused and the honey project could be deemed to be inherently inefficient. But through Allah's Inspiration, bees store the greatest possible amount of honey by building their combs in the form of hexagons.

- ⦿ These are the only verses of the Qur'an that mention bees, honey and honeycombs. The abjad value of these verses is 720. (By minor abjad calculation)
- ⦿ The total internal angles of the comb add up to 720 degrees.
- ⦿ Every cell in the comb is a hexagon. Each internal angle in the cell is 120 degrees.
- ⦿ The number of clause (clauses) in Surat an-Nahl until this matter is discussed is 120.

THE COMPANIONS OF THE CAVE AND HOW THEY SPENT THREE HUNDRED AND NINE (309) YEARS IN THE CAVE

Do you consider that the Companions of the Cave and Ar-Raqim were one of the most remarkable of Our Signs?

(Surat al-Kahf, 9)

- ➊ The abjad values of "as-haba alkahfi," meaning "The Companions of the Cave," is 238. (By minor abjad calculation)
- ➋ The number of syllables in the Surah up to the term "as-haba alkahfi" (Companions of the Cave) is also 238.¹²⁵
- ➌ The variety of letters used in the verse up to the term "as-haba alkahfi" (Companions of the Cave) is 7.¹²⁶
- ➍ The number of words from "as-haba alkahfi" (Companions of the Cave) to the end of the verse is 7.
- ➎ Our Lord's name "Allah" is repeated 7 times in the story of the Companions of the Cave in the Surah.
- ➏ "As-haba alkahfi" (Companions of the Cave) is in the 7th clause on the page.
- ➐ This verse is the 7th from the top of the page.

They stayed in their Cave for three hundred years and added nine. (Surat al-Kahf, 25)

In revealing how long the Companions spent in the cave, the Qur'an says "**They stayed in their Cave for three hundred years and added nine.**" (Surat al-Kahf, 25) In interpreting this verse, commentators say that the Companions of the Cave slept for 300 solar years or 309 years by the lunar calendar.

- ⌚ The number of syllables up to "sineena waizdadoo," meaning "number of years" is exactly 309.¹²⁷
- ⌚ There are 309 undotted letters in the Surah up to the term "sineena waizdadoo".

Then We woke them up again so that we might see which of the two groups would better calculate the time they had stayed there. (Surat al-Kahf, 12)

⌚ This verse reveals that the reason the Companions of the Cave were woken was to establish which of the two groups would most accurately calculate how long the slumber had lasted. The number of syllables before this verse is exactly 309.¹²⁸

They stayed in their Cave for three hundred years and added nine. (Surat al-Kahf, 25)

Allah, in His Eternal Wisdom, does not directly mention the number "309" in this Surah. He does say exactly how long these companions remained in the cave. Rather, the Qur'an speaks of an additional nine years thus drawing attention to the difference between the solar and lunar years. (Allah knows the truth.)

The solar year refers to the Earth's revolution around the Sun, and 365.242217 complete revolutions of the Earth constitute a solar year. A lunar year consists of 354.36768 days, the time in which the Moon orbits the Earth 12 times. There is thus a difference of 10.874537 days between the solar and lunar years. In short, 100 solar years is thus equivalent to 103 lunar years.

In order to determine the equivalent of 300 solar years in terms of lunar years, we need to add on 9 more years – just as in the verse.

- ⌚ The total of all the numbers in this Surah up to this verse is 300. (300 by the Gregorian calendar equates to 309 years by the Islamic calendar.)

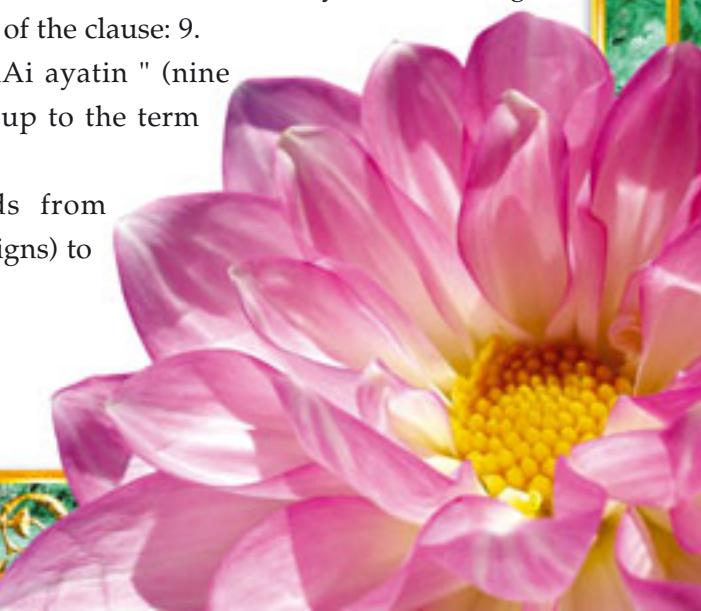
- There are 309 pages from this page, the last to refer to the Companions of the Cave and their sleep, and the end of the Qur'an.

That was the situation when we woke them up so they could question one another. One of them asked, 'How long have you been here?' They replied, 'We have been here for a day or part of a day.' They said, 'Your Lord knows best how long you have been here. Send one of your number into the city with this silver you have, so he can see which food is purest and bring you some of it to eat. But he should go about with caution so that no one is aware of you. (Surat al-Kahf, 19)

THE NINE (9) MIRACLES OF THE PROPHET MOSES (as)

Put your hand inside your shirt front. It will emerge pure white, yet quite unharmed – one of nine Signs to Pharaoh and his people. They are a people of deviators.'
(Surat an-Naml, 12)

- Number of syllables from the term "tisAAi ayatin," meaning "nine Signs," to the end of the clause: 9.
- The letters in "tisAAi ayatin" (nine Signs) appear 9 times up to the term "tis'i ayatin."
- Number of words from "tisAAi ayatin" (nine Signs) to the end of the verse: 9.



- ⦿ "TisAAi ayatin" (nine Signs) appears on the 9th page from the end of the Surah.
- ⦿ The variety of undotted letters in the verse up to the word "tisAAi," meaning 9, is 9.
- ⦿ The number of undotted letters from the word "tisAAi" (9) to the end of the clause: 9.¹²⁹
- ⦿ " TisAAi" (9) is the ninth word from the end of the verse.
- ⦿ The abjad value of the muqatt'at letters (ta, sin) in the Surah is 9. (By minor abjad calculation)

A GROUP OF NINE (9) IN THE CITY

There was a group of nine men in the city causing corruption in the land and not putting things right. (Surat an-Naml, 48)

- ⦿ The letters in the term "tisAAatu rahtin," meaning "nine men," appear 9 times between the expression and the end of the verse.¹³⁰
- ⦿ There are 9 dotted letters between the term "tisAAatu rahtin" (9 men) and the end of the verse.
- ⦿ Nine undotted letters are used from the term "tisAAatu rahtin" (9 men) and the end of the verse.¹³¹
- ⦿ The abjad value of the muqatt'at letters (ta, sin) in the term

"tisAAatu rahtin" (9 men) is 9.¹³² (By minor abjad calculation)

- ⌚ There are 9 verses in the story of the people of Shelah and Thamud.¹³³

THE MATTER OF THE NINETY NINE (99) EWES

This brother of mine has ninety-nine ewes and I have only one. He said, "Let me have charge of it," and got the better of me with his words.' (Sura Sad, 23)

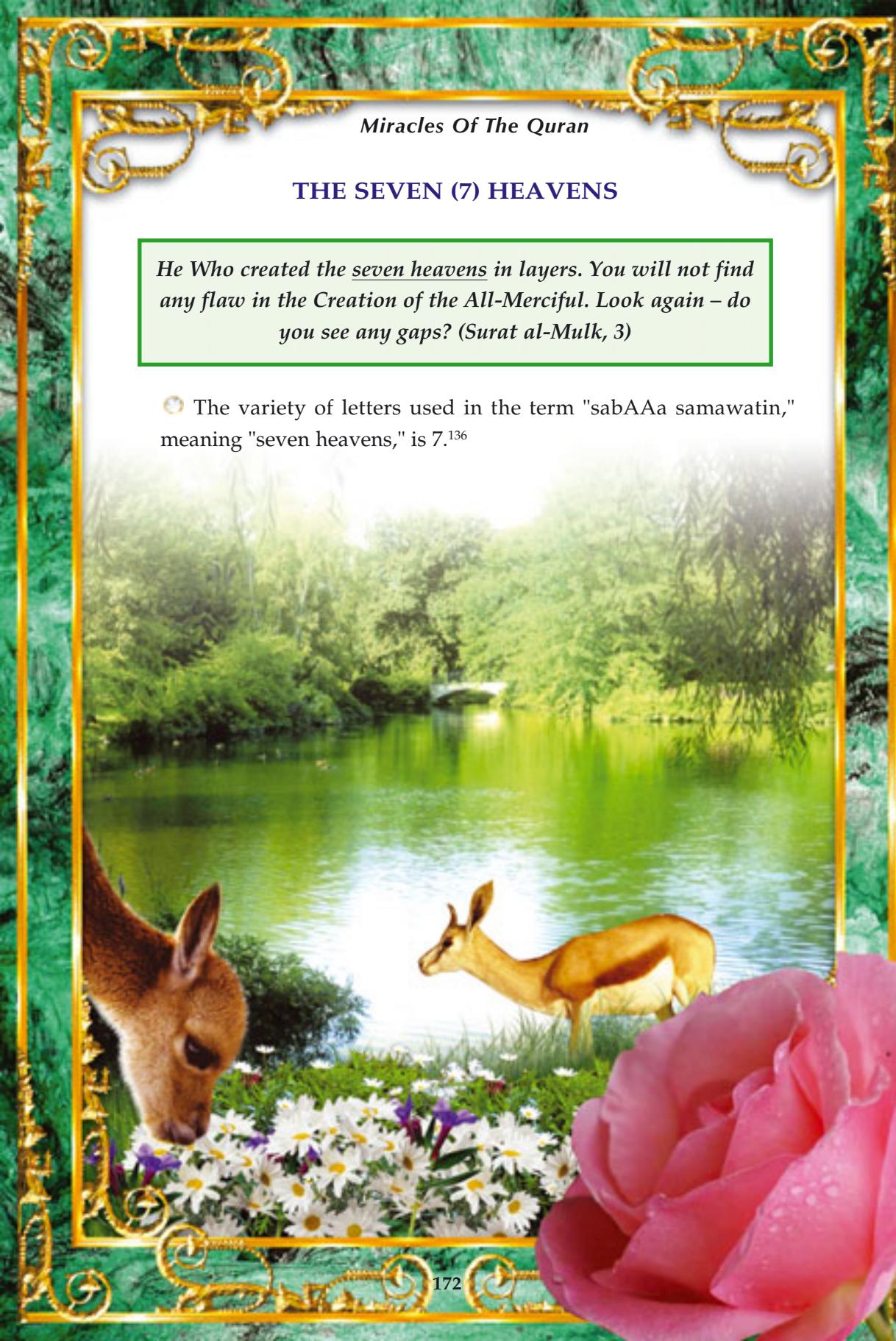
- ⌚ The subject of the 99 ewes begins at verse 21. There are 99 syllables from the beginning of the reference to the Prophet David (as) – from verse 17, to verse 21.¹³⁴
- ⌚ The matter of the 99 ewes begins being described in verse 22. The matter of the 99 ewes begins with the 2nd clause of verse 22, and this clause is the 99th from the end of the Surah.
- ⌚ There are 99 syllables from the 2nd clause of verse 22 to the term "niAAajihi," meaning "his ewes," in verse 24.
- ⌚ The abjad value of the letters at the end of the verse up to the end of verse 23 containing the term "tisAAun watisAAoona naAAjatan," meaning 99 ewes, is 99. (By the minor abjad calculation.)¹³⁵
- ⌚ The abjad value of the term "hatha akhee lahu tisAAun watisAAoona naAAjatan," meaning "this brother of mine has 99 ewes," is 99'dur. (By minor abjad calculation)



THE SEVEN (7) HEAVENS

He Who created the seven heavens in layers. You will not find any flaw in the Creation of the All-Merciful. Look again – do you see any gaps? (Surat al-Mulk, 3)

- ➊ The variety of letters used in the term "sabAAa samawatin," meaning "seven heavens," is 7.¹³⁶

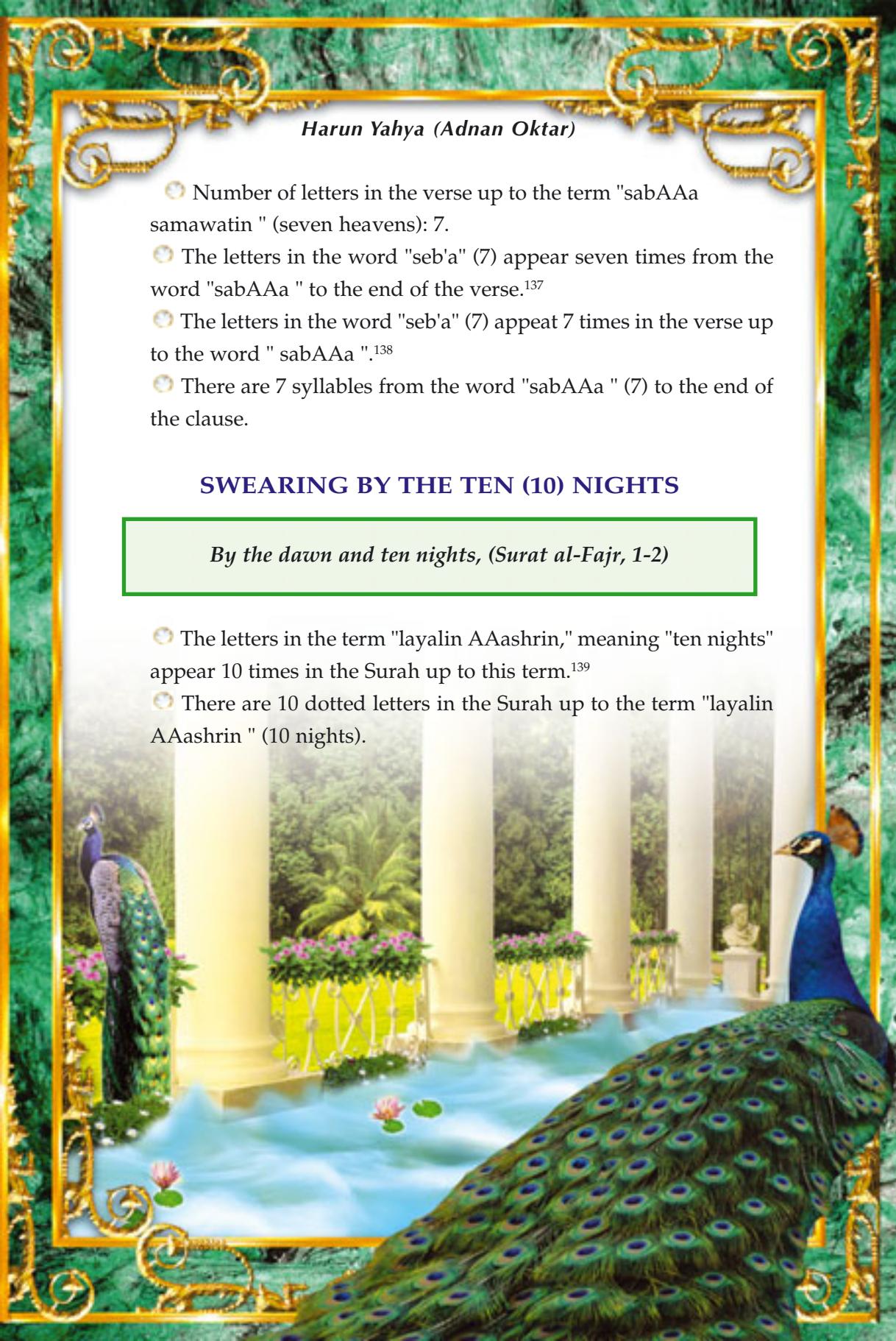


- ➊ Number of letters in the verse up to the term "sabAAa samawatin " (seven heavens): 7.
- ➋ The letters in the word "seb'a" (7) appear seven times from the word "sabAAa " to the end of the verse.¹³⁷
- ➌ The letters in the word "seb'a" (7) appear 7 times in the verse up to the word " sabAAa ".¹³⁸
- ➍ There are 7 syllables from the word "sabAAa " (7) to the end of the clause.

SWEARING BY THE TEN (10) NIGHTS

By the dawn and ten nights, (Surat al-Fajr, 1-2)

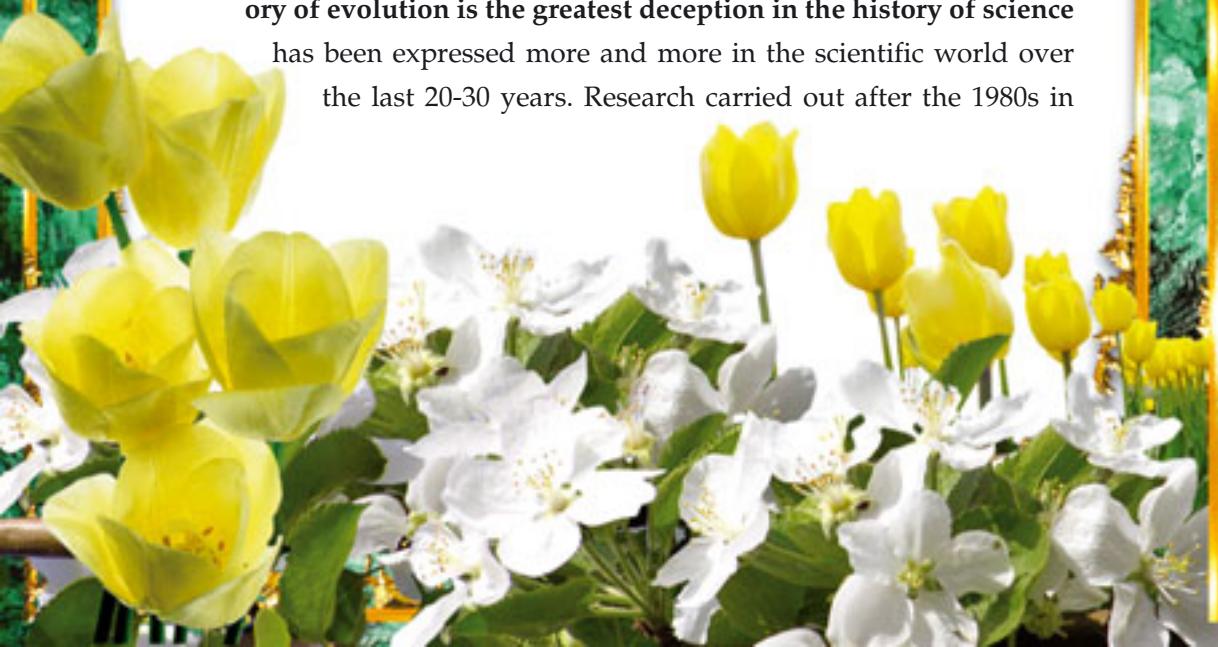
- ➊ The letters in the term "layalin AAashrin," meaning "ten nights" appear 10 times in the Surah up to this term.¹³⁹
- ➋ There are 10 dotted letters in the Surah up to the term "layalin AAashrin " (10 nights).



THE DECEPTION OF EVOLUTION

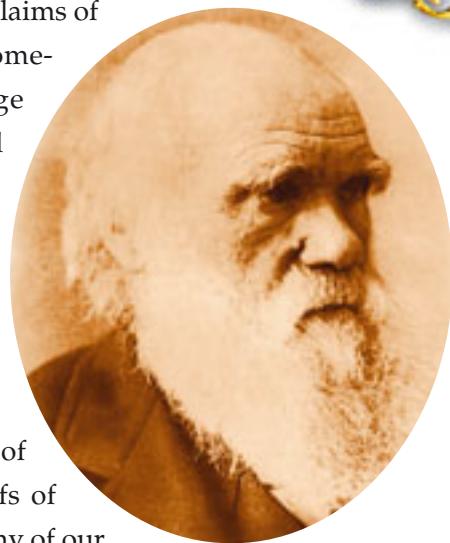
Darwinism, in other words the theory of evolution, was put forward with the aim of denying the fact of Creation, but is in truth nothing but failed, unscientific nonsense. **This theory, which claims that life emerged by chance from inanimate matter, was invalidated by the scientific evidence of miraculous order in the universe and in living things, as well as by the discovery of about 300 million fossils revealing that evolution never happened.** In this way, science confirmed the fact that Allah created the universe and the living things in it. The propaganda carried out today in order to keep the theory of evolution alive is based solely on the distortion of the scientific facts, biased interpretation, and lies and falsehoods disguised as science.

Yet this propaganda cannot conceal the truth. The fact that **the theory of evolution is the greatest deception in the history of science** has been expressed more and more in the scientific world over the last 20-30 years. Research carried out after the 1980s in



particular has revealed that the claims of Darwinism are totally unfounded, something that has been stated by a large number of scientists. In the United States in particular, many scientists from such different fields as biology, biochemistry and paleontology recognize the invalidity of Darwinism and employ the fact of Creation to account for the origin of life.

We have examined the collapse of the theory of evolution and the proofs of Creation in great scientific detail in many of our works, and are still continuing to do so. Given the enormous importance of this subject, it will be of great benefit to summarize it here.



Charles Darwin

The Scientific Collapse of Darwinism

As a **pagan doctrine** going back as far as ancient Greece, the theory of evolution was advanced extensively in the nineteenth century. The most important development that made it the top topic of the world of science was Charles Darwin's *The Origin of Species*, published in 1859. In this book, he opposed, in his own eyes, the fact that Allah created different living species on Earth separately, for he erroneously claimed that all living beings had a common ancestor and had diversified over time through small changes. **Darwin's theory was not based on any concrete scientific finding; as he also accepted, it was just an "assumption."** Moreover, as Darwin confessed in the long chapter of his book titled "Difficulties on Theory," the theory failed in the face of many critical questions.

Darwin invested all of his hopes in new scientific discoveries, which he expected to solve these difficulties. However, contrary to his ex-

pectations, scientific findings expanded the dimensions of these difficulties. The defeat of Darwinism in the face of science can be reviewed under three basic topics:

- 1) The theory cannot explain how life originated on Earth.
- 2) No scientific finding shows that the "evolutionary mechanisms" proposed by the theory have any evolutionary power at all.
- 3) The fossil record proves the exact opposite of what the theory suggests.

In this section, we will examine these three basic points in general outlines:

The First Insurmountable Step: The Origin of Life

The theory of evolution posits that all living species evolved from a single living cell that emerged on the primitive Earth 3.8 billion years ago. How a single cell could generate millions of complex living species and, if such an evolution really occurred, why traces of it cannot be observed in the fossil record are some of the questions that the theory cannot answer. However, first and foremost, we need to ask: **How did this "first cell" originate?**

Since the theory of evolution ignorantly denies Creation, it maintains that the "first cell" originated as a product of blind coincidences within the laws of nature, without any plan or arrangement. According to the theory, inanimate matter must have produced a living cell as a result of coincidences. Such a claim, however, is inconsistent with the most unassailable rules of biology.

"Life Comes From Life"

In his book, Darwin never referred to the origin of life. The primitive understanding of science in his time rested on the assumption that living beings had a very simple structure. Since medieval times,

spontaneous generation, which asserts that non-living materials came together to form living organisms, had been widely accepted. It was commonly believed that insects came into being from food leftovers, and mice from wheat. Interesting experiments were conducted to prove this theory. Some wheat was placed on a dirty piece of cloth, and it was believed that mice would originate from it after a while.

Similarly, maggots developing in rotting meat was assumed to be evidence of spontaneous generation. However, **it was later understood that worms did not appear on meat spontaneously, but were carried there by flies in the form of larvae, invisible to the naked eye.**

Even when Darwin wrote *The Origin of Species*, the belief that bacteria could come into existence from non-living matter was widely accepted in the world of science.

However, five years after the publication of Darwin's book, Louis Pasteur announced his results after long studies and experiments, that disproved spontaneous generation, a cornerstone of Darwin's theory.

In his triumphal lecture at the Sorbonne in 1864, Pasteur said: "Never will the doctrine of spontaneous generation recover from the mortal blow struck by this simple experiment."¹⁴⁰

For a long time, advocates of the theory of evolution resisted these findings. However, as the development of science unraveled the complex structure of the cell of a living being, the idea that life could come into being coincidentally faced an even greater impasse.



Louis Pasteur

Inconclusive Efforts of the Twentieth Century

The first evolutionist who took up the subject of the origin of life in the twentieth century was the renowned Russian biologist Alexander Oparin. With various theses he advanced in the 1930s, he tried to prove that a living cell could originate by coincidence. These studies, however, were doomed to failure, and Oparin had to make the following confession:

Unfortunately, however, the problem of the origin of the cell is perhaps the most obscure point in the whole study of the evolution of organisms.¹⁴¹

Evolutionist followers of Oparin tried to carry out experiments to solve this problem. The best known experiment was carried out by the American chemist Stanley Miller in 1953. Combining the gases he alleged

to have existed in the primordial Earth's atmosphere in an experiment set-up, and adding energy to the mixture, Miller synthesized several organic molecules (amino acids) present in the structure of proteins.

Barely a few years had passed before it was revealed that this experiment, which was then presented as an important step in the name of evolution, was invalid, for the atmosphere used in the experiment was very different from the real Earth conditions.¹⁴²



Stanley Miller



Alexander Oparin

After a long silence, Miller confessed that the atmosphere medium he used was unrealistic.¹⁴³

All the evolutionists' efforts throughout the twentieth century to explain the origin of life ended in failure. The geochemist Jeffrey Bada, from the San Diego Scripps Institute accepts this fact in an article published in *Earth* magazine in 1998:

Today as we leave the twentieth century, we still face the biggest unsolved problem that we had when we entered the twentieth century: How did life originate on Earth?¹⁴⁴

The Complex Structure of Life

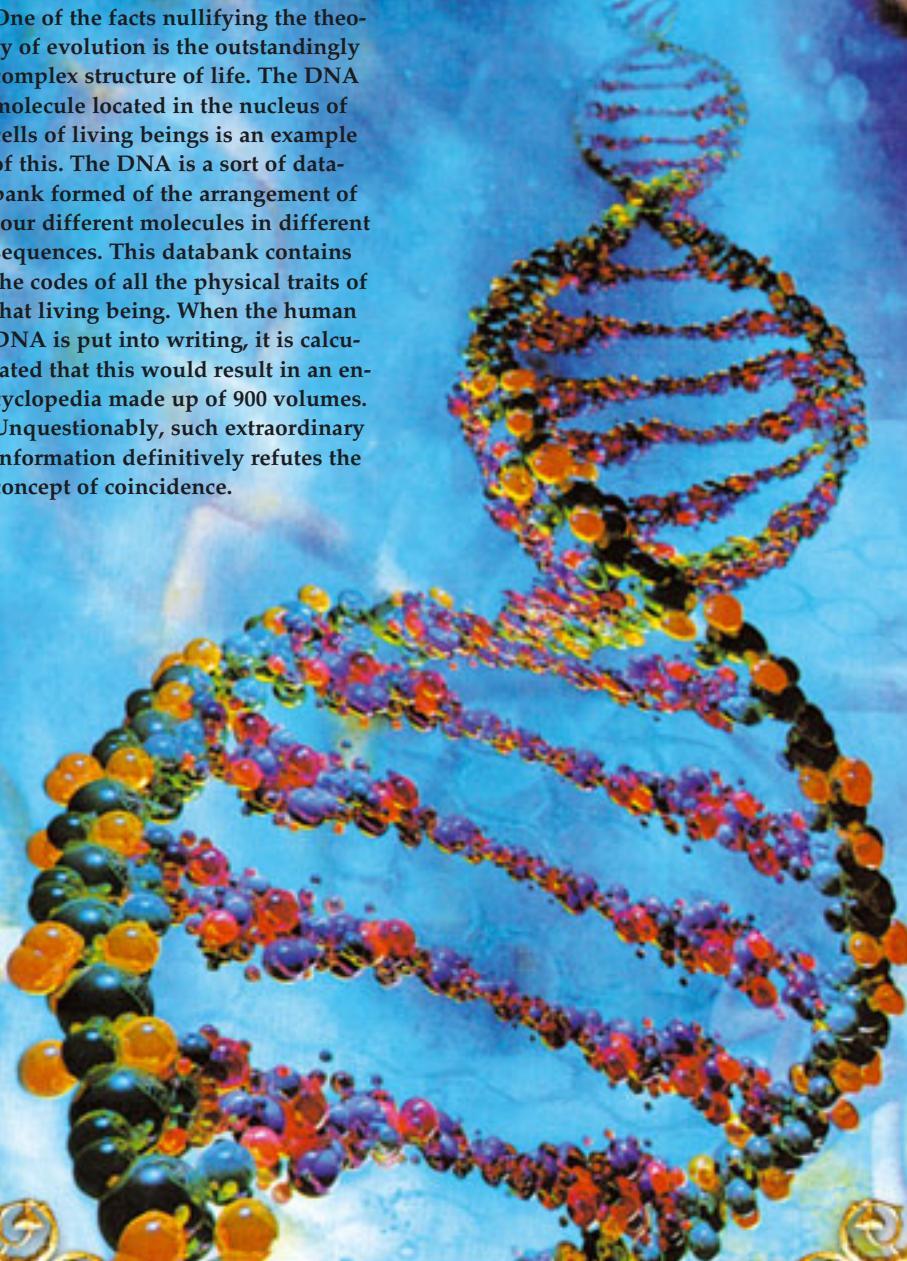
The primary reason why the theory of evolution ended up in such a great impasse regarding the origin of life is that even those living organisms deemed to be the simplest have outstandingly complex structures. The cell of a living thing is more complex than all of our man-made technological products. **Today, even in the most developed laboratories of the world, a living cell cannot be produced by bringing organic chemicals together.**

The conditions required for the formation of a cell are too great in quantity to be explained away by coincidences. **The probability of proteins, the building blocks of a cell, being synthesized coincidentally, is 1 in 10^{950} for an average protein made up of 500 amino acids. In mathematics, a probability smaller than 1 over 10^{50} is considered to be impossible in practical terms.**

The DNA molecule, which is located in the nucleus of a cell and which stores genetic information, is a magnificent databank. If the information coded in DNA were written down, it would make a giant library consisting of an estimated 900 volumes of encyclopedias consisting of 500 pages each.

A very interesting dilemma emerges at this point: DNA can replicate itself only with the help of some specialized proteins

One of the facts nullifying the theory of evolution is the outstandingly complex structure of life. The DNA molecule located in the nucleus of cells of living beings is an example of this. The DNA is a sort of databank formed of the arrangement of four different molecules in different sequences. This databank contains the codes of all the physical traits of that living being. When the human DNA is put into writing, it is calculated that this would result in an encyclopedia made up of 900 volumes. Unquestionably, such extraordinary information definitely refutes the concept of coincidence.



(enzymes). However, the synthesis of these enzymes can be realized only by the information coded in DNA. As they both depend on each other, they have to exist at the same time for replication. This brings the scenario that life originated by itself to a deadlock. Prof. Leslie Orgel, an evolutionist of repute from the University of San Diego, California, confesses this fact in the September 1994 issue of the *Scientific American* magazine:

It is extremely improbable that proteins and nucleic acids, both of which are structurally complex, arose spontaneously in the same place at the same time. Yet it also seems impossible to have one without the other. And so, at first glance, one might have to conclude that life could never, in fact, have originated by chemical means.¹⁴⁵

No doubt, if it is impossible for life to have originated spontaneously as a result of blind coincidences, then it has to be accepted that life was "created." This fact explicitly invalidates the theory of evolution, whose main purpose is to deny Creation.

Imaginary Mechanism of Evolution

The second important point that negates Darwin's theory is that both concepts put forward by the theory as "evolutionary mechanisms" were understood to have, in reality, no evolutionary power.

Darwin based his evolution allegation entirely on the mechanism of "natural selection." The importance he placed on this mechanism was evident in the name of his book: *The Origin of Species, By Means of Natural Selection...*

Natural selection holds that those living things that are stronger and more suited to the natural conditions of their habitats will survive in the struggle for life. For example, in a deer herd under the threat of attack by wild animals, those that can run faster will survive. Therefore, the deer herd will be comprised of faster and stronger individuals.



According to natural selection, the strong and those able to adapt to their surroundings survive, while the rest disappear. Evolutionists propose that natural selection causes living things to evolve and results in new species. However, natural selection has no such effect and there is not even a single evidence supporting the claim that it does.

However, unquestionably, this mechanism will not cause deer to evolve and transform themselves into another living species, for instance, horses.

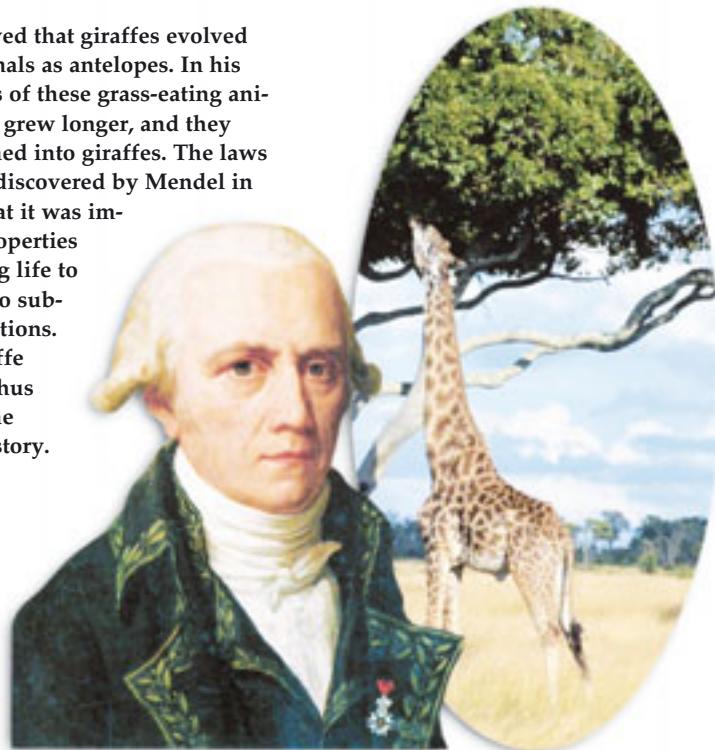
Therefore, **the mechanism of natural selection has no evolutionary power.** Darwin was also aware of this fact and had to state this in his book *The Origin of Species*:

Natural selection can do nothing until favourable individual differences or variations occur.¹⁴⁶

Lamarck's Impact

So, how could these "favorable variations" occur? Darwin tried to answer this question from the standpoint of the primitive understanding of science at that time. According to the French biologist Chevalier de Lamarck (1744-1829), who lived before Darwin, living creatures passed on the traits they acquired during their lifetime to the next generation. He asserted that these traits, which accumulated from one generation to

Lamarck believed that giraffes evolved from such animals as antelopes. In his view, the necks of these grass-eating animals gradually grew longer, and they eventually turned into giraffes. The laws of inheritance discovered by Mendel in 1865 proved that it was impossible for properties acquired during life to be handed on to subsequent generations. Lamarck's giraffe fairy tale was thus consigned to the wastebin of history.



another, caused new species to be formed. For instance, he claimed that giraffes evolved from antelopes; as they struggled to eat the leaves of high trees, their necks were extended from generation to generation.

Darwin also gave similar examples. In his book *The Origin of Species*, for instance, he said that some bears going into water to find food transformed themselves into whales over time.¹⁴⁷

However, the laws of inheritance discovered by Gregor Mendel (1822-84) and verified by the science of genetics, which flourished in the twentieth century, utterly demolished the legend that acquired traits were passed on to subsequent generations. Thus, natural selection fell out of favor as an evolutionary mechanism.

Neo-Darwinism and Mutations

In order to find a solution, Darwinists advanced the "Modern Synthetic Theory," or as it is more commonly known, Neo-Darwinism, at the end of the 1930s. Neo-Darwinism added mutations, which are distortions formed in the genes of living beings due to such external factors as radiation or replication errors, as the "cause of favorable variations" in addition to natural mutation.

Today, the model that Darwinists espouse, despite their own awareness of its scientific invalidity, is neo-Darwinism. The theory maintains that millions of living beings formed as a result of a process whereby nu-

merous complex organs of these organisms (e.g., ears, eyes, lungs, and wings) underwent "mutations," that is, genetic disorders. Yet, there is an outright scientific fact that totally undermines this theory: **Mutations do not cause living beings to develop; on the contrary, they are always harmful.**

The reason for this is very simple: **DNA has a very complex structure, and random effects can only harm it.** The American geneticist B. G. Ranganathan explains this as follows:



All mutations observed in human beings are harmful. That is because living DNA has a highly complex order. Any random impact on this molecule can only be damaging to the organism. Changes caused by mutations are always death, handicaps and diseases. (side) Picture of a fruit fly subjected to mutation.

First, genuine mutations are very rare in nature. Secondly, most mutations are harmful since they are random, rather than orderly changes in the structure of genes;

any random change in a highly ordered system will be for the worse, not for the better. For example, if an earthquake were to shake a highly ordered structure such as a building, there would be a random change in the framework of the building which, in all probability, would not be an improvement.¹⁴⁸

Not surprisingly, no mutation example, which is useful, that is, which is observed to develop the genetic code, has been observed so far. All mutations have proved to be harmful. It was understood that mutation, which is presented as an "evolutionary mechanism," is actually a genetic occurrence that harms living things, and leaves them disabled. (The most common effect of mutation on human beings is cancer.) Of course, a destructive mechanism cannot be an "evolutionary mechanism." Natural selection, on the other hand, "can do nothing by itself," as Darwin also accepted. This fact shows us that there is no "evolutionary mechanism" in nature. Since no evolutionary mechanism exists, no such any imaginary process called "evolution" could have taken place.

The Fossil Record: No Sign of Intermediate Forms

The clearest evidence that the scenario suggested by the theory of evolution did not take place is the fossil record.

According to the unscientific supposition of this theory, every living species has sprung from a predecessor. A previously existing species turned into something else over time and all species have come into being in this way. In other words, this transformation proceeds gradually over millions of years.

Had this been the case, numerous intermediary species should have existed and lived within this long transformation period.

For instance, some half-fish/half-reptiles should have lived in the past which had acquired some reptilian traits in addition to the fish traits they already had. Or there should have existed some rep-

tile-birds, which acquired some bird traits in addition to the reptilian traits they already had. Since these would be in a transitional phase, they should be disabled, defective, crippled living beings. Evolutionists refer to these imaginary creatures, which they believe to have lived in the past, as "transitional forms."

If such animals ever really existed, there should be millions and even billions of them in number and variety. More importantly, the remains of these strange creatures should be present in the fossil record. In *The Origin of Species*, Darwin explained:

If my theory be true, numberless intermediate varieties, linking most closely all of the species of the same group together must assuredly have existed... Consequently, evidence of their former existence could be found only amongst fossil remains.¹⁴⁹

However, Darwin was well aware that no fossils of these intermediate forms had yet been found. He regarded this as a major difficulty for his theory. In one chapter of his book titled "Difficulties on Theory," he wrote:



There is no fossil that can validate the claims regarding the evolution of plants. To the contrary, hundreds of thousands of fossils disprove these claims. One of these, pictured here, is that of a 54- to 37- million-year-old fossil ginkgo leaf. The fact that ginkgos have not changed in millions of years shows that evolution is a great deception.



Why, if species have descended from other species by insensibly fine gradations, **do we not everywhere see innumerable transitional forms?** Why is not all nature in confusion instead of the species being, as we see them, well defined?... But, as by this theory innumerable transitional forms must have existed, why do we not find them embedded in countless numbers in the crust of the earth?... Why then is not every geological formation and every stratum full of such intermediate links? Geology assuredly does not reveal any such finely graduated organic chain; and this, perhaps, is the most obvious and gravest objection which can be urged against my theory.¹⁵⁰

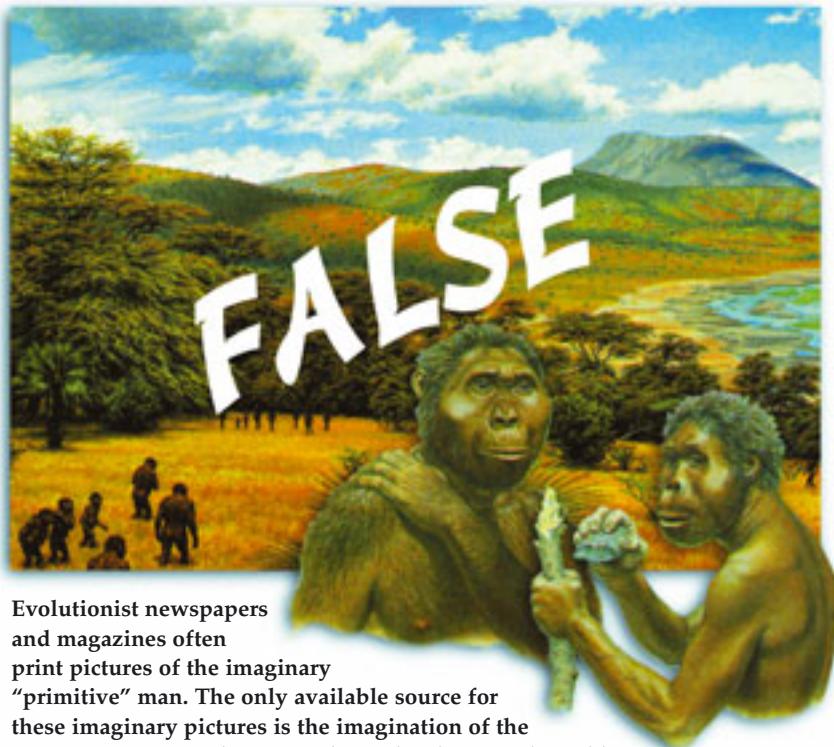
Darwin's Hopes Shattered

However, although evolutionists have been making strenuous efforts to find fossils since the middle of the nineteenth century all over the world, **no transitional forms have yet been uncovered.** All of the fossils, contrary to the evolutionists' expectations, show that **life appeared on Earth all of a sudden and fully-formed.**

One famous British paleontologist, Derek V. Ager, admits this fact, even though he is an evolutionist:

The point emerges that if we examine the fossil record in detail, whether at the level of orders or of species, **we find – over and over again – not gradual evolution, but the sudden explosion of one group at the expense of another.**¹⁵¹

This means that in the fossil record, **all living species suddenly emerge as fully formed, without any intermediate forms in between.** This is just the opposite of Darwin's assumptions. Also, this is very strong evidence that **all living things are created.** The only explanation of a living species emerging suddenly and complete in every detail without any evolutionary ancestor is that it was created. This fact is admitted also by the widely known evolutionist biologist Douglas Futuyma:



Evolutionist newspapers and magazines often print pictures of the imaginary "primitive" man. The only available source for these imaginary pictures is the imagination of the artist. However, evolutionary theory has been so dented by scientific data that today we see less and less of it in the serious press.

Creation and evolution, between them, exhaust the possible explanations for the origin of living things. Organisms either appeared on the earth fully developed or they did not. If they did not, they must have developed from pre-existing species by some process of modification. If they did appear in a fully developed state, they must indeed have been created by some omnipotent intelligence.¹⁵²

Fossils show that living beings emerged fully developed and in a perfect state on the Earth. That means that "the origin of species," contrary to Darwin's supposition, is not evolution, but **Creation**.

The Tale of Human Evolution

The subject most often brought up by advocates of the theory of evolution is the subject of the origin of man. The Darwinist claim holds that man evolved from so-called ape-like creatures. During this alleged evolutionary process, which is supposed to have started 4-5 million years ago, some "transitional forms" between present-day man and his imaginary ancestors are supposed to have existed. According to this completely imaginary scenario, four basic "categories" are listed:

1. Australopithecus
2. Homo habilis
3. Homo erectus
4. Homo sapiens

Evolutionists call man's so-called first ape-like ancestors *Australopithecus*, which means "South African ape." These living beings are actually nothing but an old ape species that has become extinct. Extensive research done on various *Australopithecus* specimens by two world famous anatomists from England and the USA, namely, Lord Solly Zuckerman and Prof. Charles Oxnard, shows that these apes belonged to an ordinary ape species that became extinct and bore no resemblance to humans.¹⁵³

Evolutionists generally interpret fossils in the light of their ideological expectations, for which reason the conclusions they arrive at are for the most part unreliable.



Evolutionists classify the next stage of human evolution as "homo," that is "man." According to their claim, the living beings in the Homo series are more developed than Australopithecus. Evolutionists devise a fanciful evolution scheme by arranging different fossils of these creatures in a particular order. This scheme is imaginary because it has never been proved that there is an evolutionary relation between these different classes. Ernst Mayr, one of the twentieth century's most important evolutionists, contends in his book One Long Argument that "particularly historical [puzzles] such as the origin of life or of Homo sapiens, are extremely difficult and may even resist a final, satisfying explanation."¹⁵⁴

By outlining the link chain as Australopithecus > Homo habilis > Homo erectus > Homo sapiens, evolutionists imply that each of these species is one another's ancestor. However, recent findings of paleoanthropologists have revealed that Australopithecus, Homo habilis, and Homo erectus lived at different parts of the world at the same time.¹⁵⁵

Moreover, a certain segment of humans classified as Homo erectus have lived up until very modern times. **Homo sapiens neanderthalensis** and **Homo sapiens sapiens** (present-day man) co-existed in the same region.¹⁵⁶

This situation apparently indicates the invalidity of the claim that they are ancestors of one another. The late Stephen Jay Gould explained this deadlock of the theory of evolution although he was himself one of the leading advocates of evolution in the twentieth century:

What has become of our ladder if there are three coexisting lineages of hominids (A. africanus, the robust australopithecines, and H. habilis), none clearly derived from another? Moreover, none of the three display any evolutionary trends during their tenure on earth.¹⁵⁷

Put briefly, the scenario of human evolution, which is "upheld" with the help of various drawings of some "half ape, half human" creatures appearing in the media and course books, that is, frankly, by means of propaganda, is nothing but a tale with no scientific foundation.



The fossils unearthed in Cambrian rocks belonged to complex invertebrate species like snails, trilobites, sponges, worms, jelly fish, starfish, marine crustaceans and sea lilies. Most interestingly, all of these distinct species emerged all of a sudden. For that reason, this miraculous phenomenon is referred to as the "Cambrian Explosion" in geological literature.

Lord Solly Zuckerman, one of the most famous and respected scientists in the U.K., who carried out research on this subject for years and studied Australopithecus fossils for 15 years, finally concluded, despite being an evolutionist himself, **that there is, in fact, no such family tree branching out from ape-like creatures to man.**

Zuckerman also made an interesting "spectrum of science" ranging from those he considered scientific to those he considered unscientific. According to Zuckerman's spectrum, the most "scientific"—that is, depending on concrete data—fields of science are chemistry and physics. After them come the biological sciences and then the social sciences. At the far end of the spectrum, which is the part considered to be most "unscientific," are "extra-sensory perception"—concepts such as telepathy and sixth sense—and finally "human evolution." Zuckerman explains his reasoning:

We then move right off the register of objective truth into those fields of presumed biological science, like extrasensory perception or the interpretation of man's fossil history, where to the faithful [evolutionist] anything is possible – and where the ardent believer [in evolution] is sometimes able to believe several contradictory things at the same time.¹⁵⁸

The tale of human evolution boils down to nothing but the prejudiced interpretations of some fossils unearthed by certain people, who blindly adhere to their theory.

Darwinian Formula!

Besides all the technical evidence we have dealt with so far, let us now for once, examine what kind of a superstition the evolutionists have with an example so simple as to be understood even by children:

The theory of evolution asserts that life is formed by chance. According to this irrational claim, lifeless and unconscious atoms came together to form the cell and then they somehow formed other living things, including man. Let us think about that. When we bring together the elements that are the building-blocks of life such as carbon, phosphorus, nitrogen and potassium, only a heap is formed. No matter what treatments it undergoes, this atomic heap cannot form even a single living being. If you like, let us formulate an "experiment" on this subject and let us examine on the behalf of evolutionists what they really claim without pronouncing loudly under the name "Darwinian formula":

Let evolutionists put plenty of materials present in the composition of living things such as phosphorus, nitrogen, carbon, oxygen, iron, and magnesium into big barrels. Moreover, let them add in these barrels any material that does not exist under normal conditions, but they think as necessary. Let them add in this mixture as many amino acids and as many proteins—a single one of which has a formation probability of 1 in 10^{50} —as they like. Let them expose these mixtures to as much heat and moisture as they like. Let them stir these with whatever technologically developed device they like. Let them put the foremost scientists beside these barrels. Let these experts wait in turn beside these barrels for billions, and even trillions of years. Let them be free to use all kinds of conditions they believe to be necessary for a human's formation. **No matter what they do, they cannot produce from these barrels a hu-**



Can life emerge if all the conditions stipulated by evolutionists are met? Of course not! In order to show why not, let us carry out the following experiment: Place all the enzymes, hormones and proteins—everything that evolutionists regard as essential for life to form—into a barrel such as that pictured on the left. Then mix all these substances, using all possible physical and chemical techniques. But whatever you do, no matter how long you wait, not a single living cell will emerge from that barrel.

man, say a professor that examines his cell structure under the electron microscope. They cannot produce giraffes, lions, bees, canaries, horses, dolphins, roses, orchids, lilies, carnations, bananas, oranges, apples, dates, tomatoes, melons, watermelons, figs, olives, grapes, peaches, peafowls, pheasants, multicoloured butterflies, or millions of other living beings such as these. Indeed, they could not obtain even a single cell of any one of them.

Briefly, **unconscious atoms cannot form the cell** by coming together. They cannot take a new decision and divide this cell into two, then take other decisions and create the professors who first invent the electron microscope and then examine their own cell structure under that microscope. **Matter is an unconscious, lifeless heap, and it comes to life with Allah's superior creation.**

The theory of evolution, which claims the opposite, is a total fallacy completely contrary to reason. Thinking even a little bit on the claims of evolutionists discloses this reality, just as in the above example.

Technology in the Eye and the Ear

Another subject that remains unanswered by evolutionary theory is the excellent quality of perception in the eye and the ear.

Before passing on to the subject of the eye, let us briefly answer the question of how we see. Light rays coming from an object fall oppositely on the eye's retina. Here, these light rays are transmitted into electric signals by cells and reach a tiny spot at the back of the brain, the "center of vision." These electric signals are perceived in this center as an image after a series of processes. With this technical background, let us do some thinking.

The brain is insulated from light. That means that its inside is completely dark, and that no light reaches the place where it is located. Thus, the "center of vision" is never touched by light and may even be the darkest place you have ever known. However, you observe a luminous, bright world in this pitch darkness.

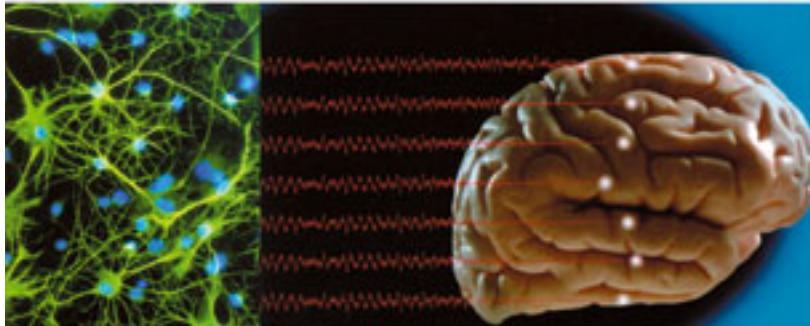
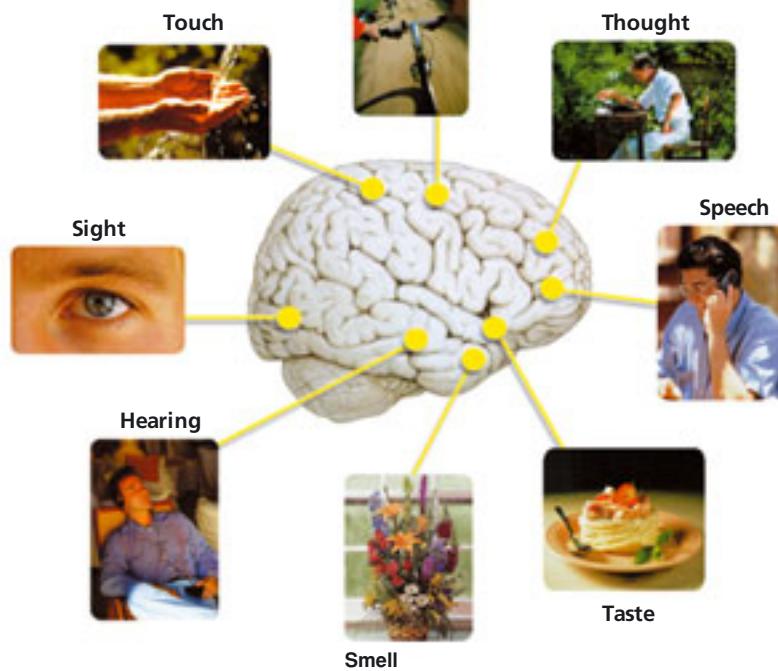
The image formed in the eye is so sharp and distinct that even the technology of the twentieth century has not been able to attain it. For instance, look at the book you are reading, your hands with which you are holding it, and then lift your head and look around you. Have you ever seen such a sharp and distinct image as this one at any other place? Even the most developed television screen produced by the greatest television producer in the world cannot provide such a sharp image for you. This is a three-dimensional, colored, and extremely sharp image. For more than 100 years, thousands of engineers have been trying to achieve this sharpness. Factories, huge premises were established, much research has been done, plans and designs have been made for this purpose. Again, look at a TV screen and the book you hold in your hands. You will see that there is a big difference in sharpness and distinction. Moreover, the TV screen shows you a two-dimensional image, whereas with your eyes, you watch a three-dimensional perspective with depth.

For many years, tens of thousands of engineers have tried to make a three-dimensional TV and achieve the vision quality of the eye. Yes, they have made a three-dimensional television system, but it is not possible to watch it without putting on special 3-D glasses; moreover, it is only an ar-



Stimulations coming from an object are converted into electrical signals and cause effects in the brain. When we "see", we in fact view the effects of these electrical signals on the mind.

Movement



We live our whole life in our brains. People we see, flowers we smell, music we hear, fruit we taste, the moisture we feel with our hands-all these are impressions that become "reality" in the brain. But no colors, voices or pictures exist there. We live in an environment of electrical impulses. This is no theory, but the scientific explanation of how we perceive the outside world.

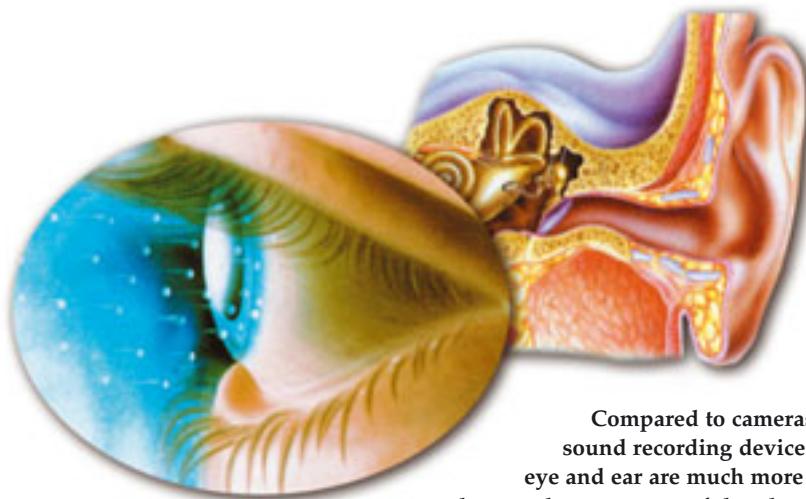
tificial three-dimension. The background is more blurred, the foreground appears like a paper setting. Never has it been possible to produce a sharp and distinct vision like that of the eye. In both the camera and the television, there is a loss of image quality.

Evolutionists claim that the mechanism producing this sharp and distinct image has been formed by chance. Now, if somebody told you that the television in your room was formed as a result of chance, that all of its atoms just happened to come together and make up this device that produces an image, what would you think? How can atoms do what thousands of people cannot?

If a device producing a more primitive image than **the eye could not have been formed by chance**, then it is very evident that the eye and the image seen by the eye could not have been formed by chance. The same situation applies to the ear. The outer ear picks up the available sounds by the auricle and directs them to the middle ear, the middle ear transmits the sound vibrations by intensifying them, and the inner ear sends these vibrations to the brain by translating them into electric signals. Just as with the eye, the act of hearing finalizes in the center of hearing in the brain.

The situation in the eye is also true for the ear. That is, **the brain is insulated from sound** just as it is from light. It does not let any sound in. Therefore, no matter how noisy is the outside, the inside of the brain is completely silent. Nevertheless, the sharpest sounds are perceived in the brain. **In your completely silent brain, you listen to symphonies, and hear all of the noises in a crowded place.** However, were the sound level in your brain measured by a precise device at that moment, complete silence would be found to be prevailing there.

As is the case with imagery, decades of effort have been spent in trying to generate and reproduce sound that is faithful to the original. The results of these efforts are sound recorders, high-fidelity systems, and systems for sensing sound. Despite all of this technology and the thou-



Compared to cameras and sound recording devices, the eye and ear are much more complex, much more successful and possess far superior features to these products of high technology.

sands of engineers and experts who have been working on this endeavor, no sound has yet been obtained that has the same sharpness and clarity as the sound perceived by the ear. Think of the highest-quality hi-fi systems produced by the largest company in the music industry. Even in these devices, when sound is recorded some of it is lost; or when you turn on a hi-fi you always hear a hissing sound before the music starts. However, the sounds that are the products of the human body's technology are extremely sharp and clear. A human ear never perceives a sound accompanied by a hissing sound or with atmospherics as does a hi-fi; rather, it perceives sound exactly as it is, sharp and clear. This is the way it has been since **the creation of man**.

So far, no man-made visual or recording apparatus has been as sensitive and successful in perceiving sensory data as are the eye and the ear. However, as far as seeing and hearing are concerned, a far greater truth lies beyond all this.

To Whom Does the Consciousness that Sees and Hears within the Brain Belong?

Who watches an alluring world in the brain, listens to symphonies and the twittering of birds, and smells the rose?

The stimulations coming from a person's eyes, ears, and nose travel to the brain as electro-chemical nerve impulses. In biology, physiology, and biochemistry books, you can find many details about how this image forms in the brain. However, you will never come across the most important fact: Who perceives these electro-chemical nerve impulses as images, sounds, odors, and sensory events in the brain? **There is a consciousness in the brain that perceives all this without feeling any need for an eye, an ear, and a nose.** To whom does this consciousness belong? Of course it does not belong to the nerves, the fat layer, and neurons comprising the brain. This is why Darwinist-materialists, who believe that everything is comprised of matter, cannot answer these questions.

For **this consciousness is the spirit created by Allah**, which needs neither the eye to watch the images nor the ear to hear the sounds. Furthermore, it does not need the brain to think.

Everyone who reads this explicit and scientific fact should ponder on Almighty Allah, and fear and seek refuge in Him, for He squeezes the entire universe in a pitch-dark place of a few cubic centimeters in a three-dimensional, colored, shadowy, and luminous form.

A Materialist Faith

The information we have presented so far shows us that **the theory of evolution is incompatible with scientific findings**. The theory's claim regarding the origin of life is inconsistent with science, the evolutionary mechanisms it proposes have no evolutionary power, and fossils demonstrate that **the required intermediate forms have never existed**. So, it certainly follows that the theory of evolution should be pushed aside as an unscientific idea. This is how many ideas,

such as the Earth-centered universe model, have been taken out of the agenda of science throughout history.

However, the theory of evolution is kept on the agenda of science. Some people even try to represent criticisms directed against it as an "attack on science." Why?

The reason is that this theory is an indispensable dogmatic belief for some circles. These circles are **blindly devoted** to materialist philosophy and adopt Darwinism because it is the only materialist explanation that can be put forward to explain the workings of nature.

Interestingly enough, they also confess this fact from time to time. A well-known geneticist and an outspoken evolutionist, Richard C. Lewontin from Harvard University, confesses that he is "first and foremost a materialist and then a scientist":

It is not that the methods and institutions of science somehow compel us accept a material explanation of the phenomenal world, but, on the contrary, that we are forced by our a priori adherence to material causes to create an apparatus of investigation and a set of concepts that produce material explanations, no matter how counter-intuitive, no matter how mystifying to the uninitiated. Moreover, that materialism is absolute, so we cannot allow a Divine [intervention]...¹⁵⁹

These are explicit statements that **Darwinism is a dogma** kept alive just for the sake of adherence to materialism. This dogma maintains that there is no being save matter. Therefore, it argues that inanimate, unconscious matter brought life into being. It insists that millions of different living species (e.g., birds, fish, giraffes, tigers, insects, trees, flowers, whales, and human beings) originated as a result of the interactions between matter such as pouring rain, lightning flashes, and so on, out of inanimate matter. This is a precept contrary both to reason and science. Yet Darwinists continue to ignorantly defend it just so as not to acknowledge, in their own eyes, the evident existence of Allah.

Anyone who does not look at the origin of living beings with a materialist prejudice sees this evident truth: **All living beings are works of a Creator**, Who is All-Powerful, All-Wise, and All-Knowing. **This Creator is Allah**, Who created the whole universe from non-existence, in the most perfect form, and fashioned all living beings.

The Theory of Evolution: The Most Potent Spell in the World

Anyone free of prejudice and the influence of any particular ideology, who uses only his or her reason and logic, will clearly understand that belief in the theory of evolution, which brings to mind the superstitions of societies with no knowledge of science or civilization, is quite impossible.

As explained above, those who believe in the theory of evolution think that a few atoms and molecules thrown into a huge vat could produce thinking, reasoning professors and university students; such scientists as Einstein and Galileo; such artists as Humphrey Bogart, Frank Sinatra and Luciano Pavarotti; as well as antelopes, lemon trees, and carnations. Moreover, as the scientists and professors who believe in this nonsense are educated people, it is quite justifiable to speak of this theory as "the most potent spell in history." Never before has any other belief or idea so taken away peoples' powers of reason, refused to allow them to think intelligently and logically, and hidden the truth from them as if they had been blindfolded. This is an even worse and unbelievable blindness than the totem worship in some parts of Africa, the people of Saba worshipping the Sun, the tribe of the Prophet Abraham (as) worshipping idols they had made with their own hands, or some among the people of the Prophet Moses (as) worshipping the Golden Calf.

In fact, Allah has pointed to this lack of reason in the Qur'an. In many verses, He reveals that some peoples' minds will be closed and that they will be powerless to see the truth. Some of these verses are as follows:

As for those who do not believe, it makes no difference to

them whether you warn them or do not warn them, they will not believe. Allah has sealed up their hearts and hearing and over their eyes is a blindfold. They will have a terrible punishment. (*Surat al-Baqara*, 6-7)

... They have hearts with which they do not understand. They have eyes with which they do not see. They have ears with which they do not hear. Such people are like cattle. No, they are even further astray! They are the unaware. (*Surat al-A'raf*, 179)

Even if We opened up to them a door into heaven, and they spent the day ascending through it, they would only say: "Our eyesight is befuddled! Or rather we have been put under a spell!" (*Surat al-Hijr*, 14-15)

Words cannot express just how astonishing it is that this spell should hold such a wide community in thrall, keep people from the truth, and not be broken for 150 years. It is understandable that one or a few people might believe in impossible scenarios and claims full of stupidity and illogicality. However, "magic" is the only possible explanation for people from all over the world believing that unconscious and lifeless atoms suddenly decided to come together and form a universe that functions with a flawless system of organization, discipline, reason, and consciousness; a planet named Earth with all of its features so perfectly suited to life; and living things full of countless complex systems.

In fact, in the Qur'an Allah relates the incident of the Prophet Moses (as) and Pharaoh to show that some people who support atheistic philosophies actually influence others by magic. When Pharaoh was told about the true religion, he told the Prophet Moses (as) to meet with his own magicians. When the Prophet Moses (as) did so, he told them to demonstrate their abilities first. The verses continue:

He said: "You throw." And when they threw, they cast a spell on the people's eyes and caused them to feel great fear of them. They produced an extremely powerful magic. (*Surat al-A'raf*, 116)



In the same way that the beliefs of people who worshipped crocodiles or natural phenomena now seem odd and unbelievable, so the beliefs of Darwinists are just as incredible. Darwinists ignorantly regard chance and lifeless, unconscious atoms as a so-called creative force, and are as devoted to that false belief as if to a religion.

As we have seen, Pharaoh's magicians were able to deceive everyone, apart from the Prophet Moses (as) and those who believed in him. However, his evidence broke the spell, or "swallowed up what they had forged," as revealed in the verse:

We revealed to Moses: "Throw down your staff." And it immediately swallowed up what they had forged. So the Truth took place and what they did was shown to be false. (Surat al-A'raf, 117-118)

As we can see, when people realized that a spell had been cast upon them and that what they saw was just an illusion, Pharaoh's magicians lost all credibility. In the present day too, unless those who, under the influence of a similar spell, believe in these ridiculous claims under their scientific disguise and spend their lives defending them, abandon their superstitious beliefs, they also will be humiliated when the full truth emerges and the spell is broken. In fact, world-renowned British writer and philosopher Malcolm Muggeridge, who was an

atheist defending evolution for some 60 years, but who subsequently realized the truth, reveals the position in which the theory of evolution would find itself in the near future in these terms:

I myself am convinced that **the theory of evolution**, especially the extent to which it's been applied, **will be one of the great jokes in the history books in the future**. Posterity will marvel that so very flimsy and dubious an hypothesis could be accepted with the incredible credulity that it has.¹⁶⁰

That future is not far off: On the contrary, people will soon see that "chance" is not a deity, and will look back on **the theory of evolution as the worst deceit and the most terrible spell in the world**. That spell is already rapidly beginning to be lifted from the shoulders of people all over the world. Many people who see its true face are wondering with amazement how they could ever have been taken in by it.

*They said, "Glory be to You!
We have no knowledge except
what You have taught us. You are
the All-Knowing, the All-Wise."*

(Surat al-Baqara, 32)

NOTES

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- 117 Nun: 3, ti: 0, fe: 3, te: 4
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- 123 Besmele dahil.
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- 126 Besmele dahil.
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- 128 te: 2, sin: 2, ayn: 1, ra: 2, he: 1, ti: 1
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