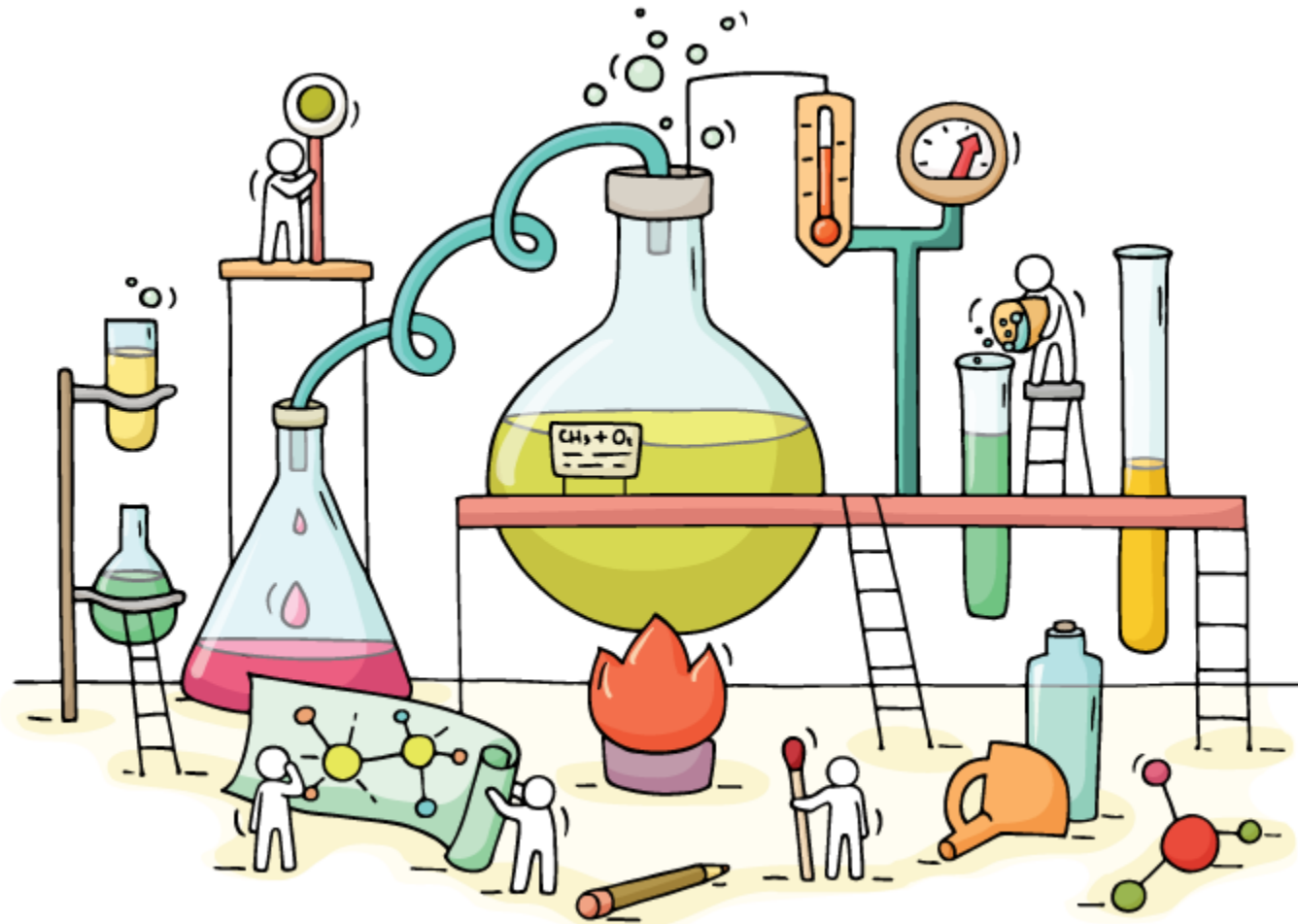
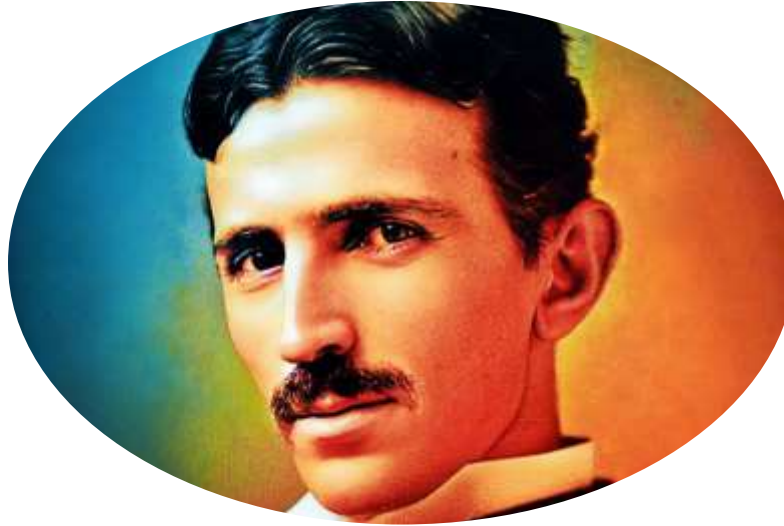


Life-Changing Scientific Discoveries





In memory of Nikola Tesla

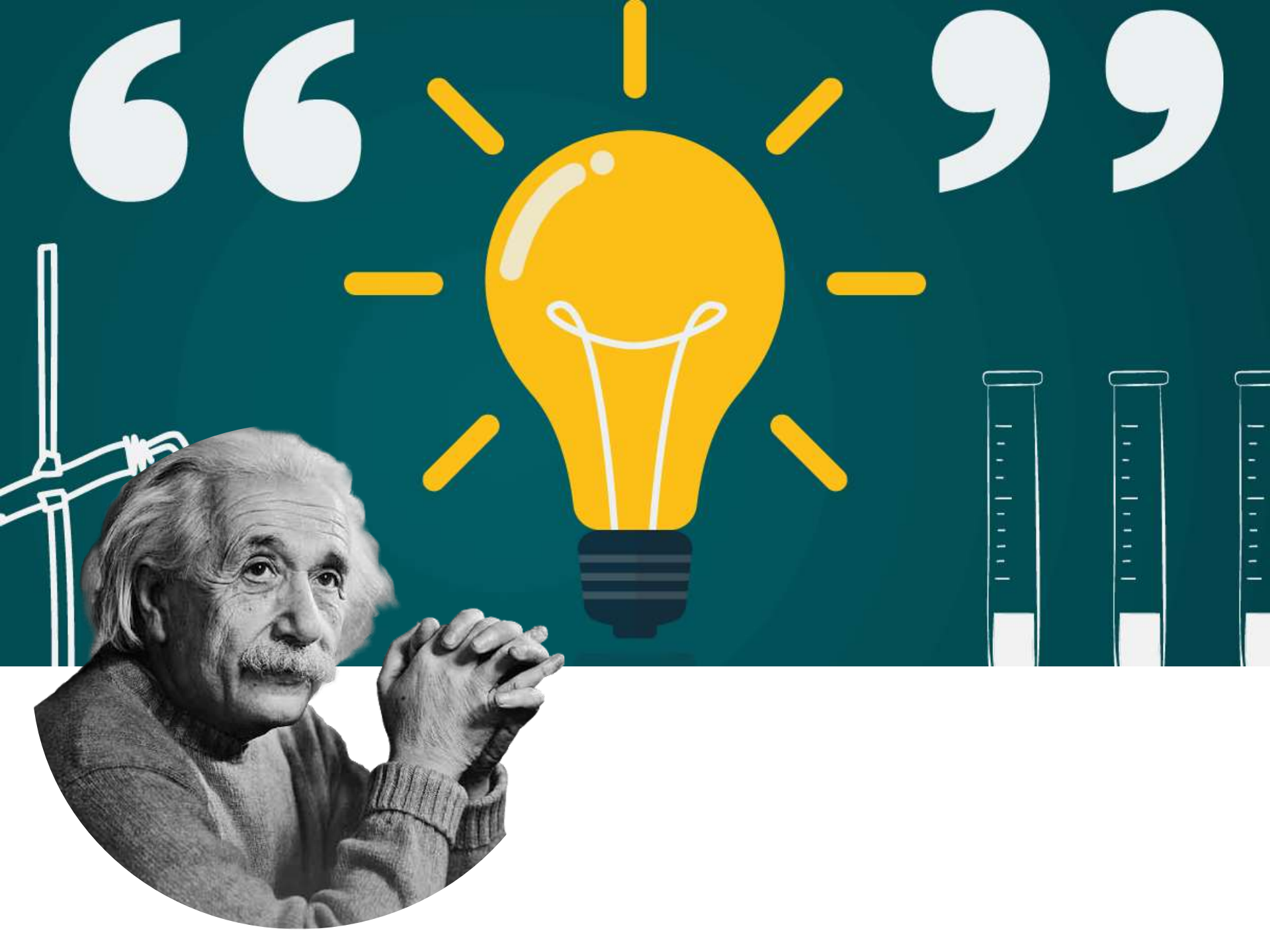
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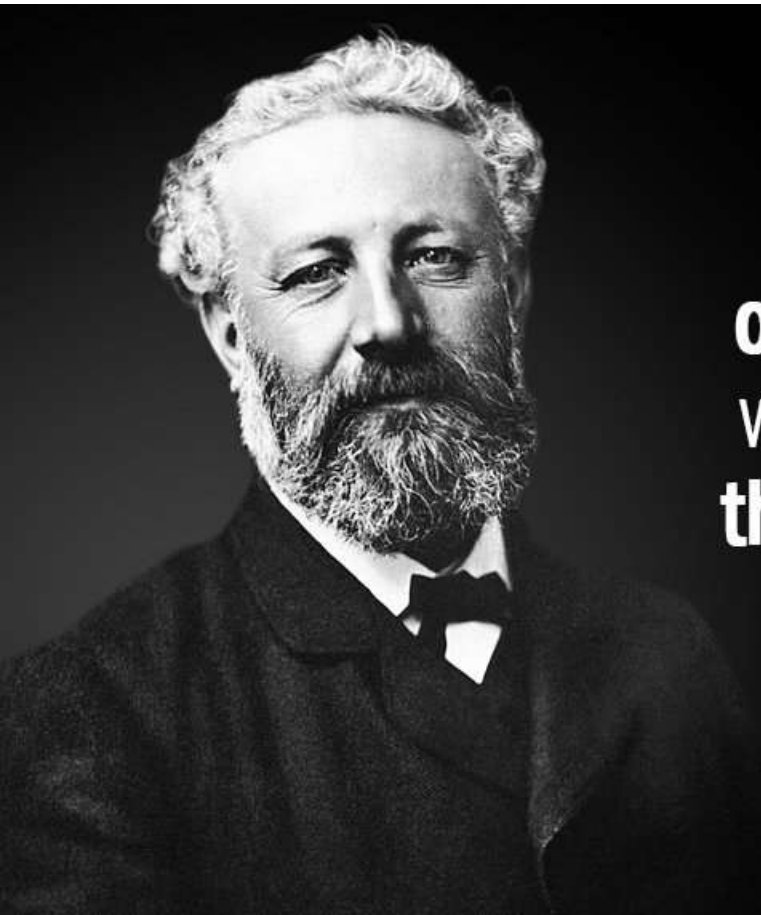
Manjunath.R

#16/1, 8th Main Road, Shivanagar, Rajajinagar, Bangalore 560010, Karnataka, India

*Corresponding Author Email: manjunath5496@gmail.com

*Website: <http://www.myw3schools.com/>



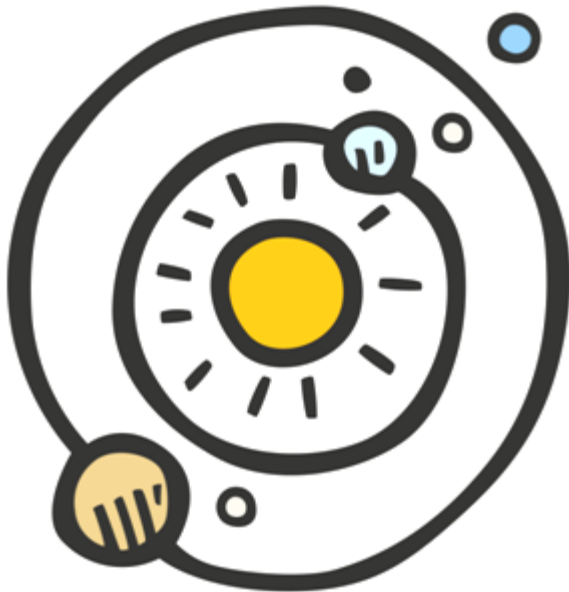


**Science, my lad, is made up
of mistakes, but they are mistakes
which it is useful to make, because
they lead little by little to the truth.**

– Jules Verne

The Copernican System

The Sun lay at the centre of the Solar System with the planets orbiting around it.



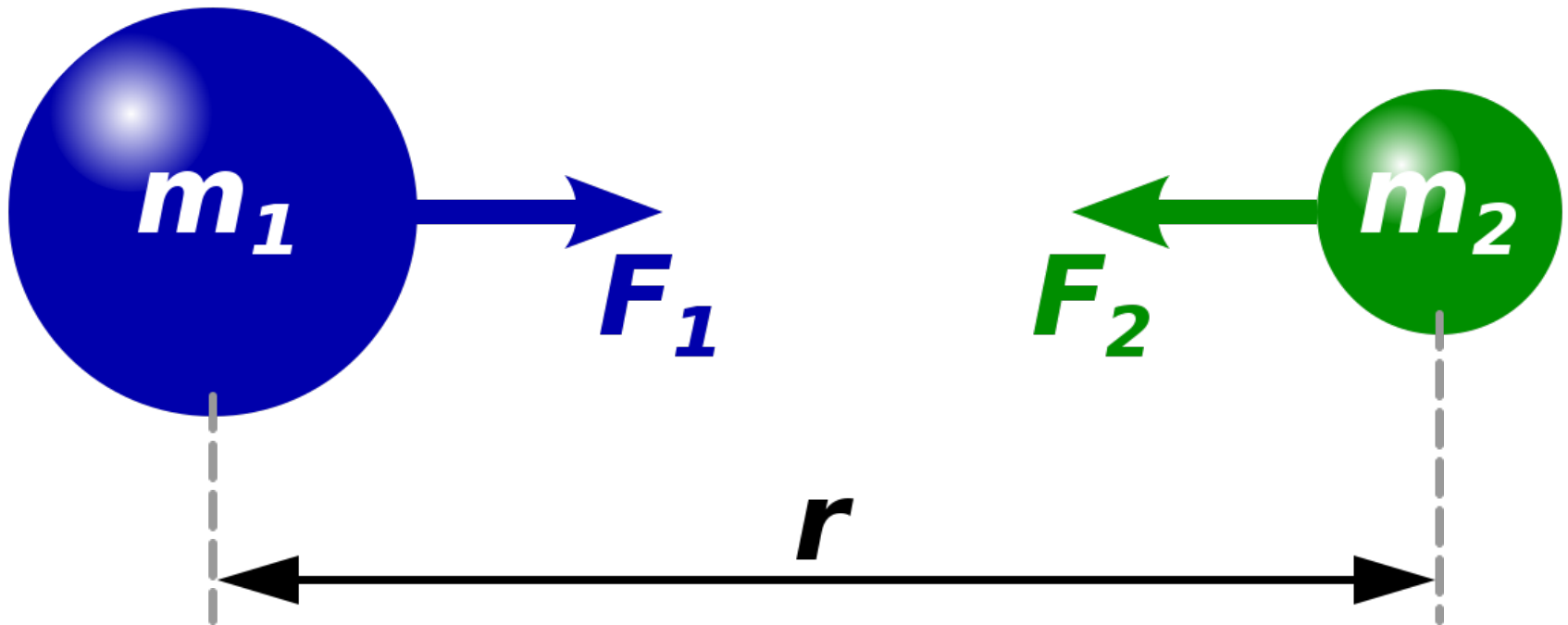


I am aware that a **philosopher's ideas** are not subject to the **judgment of ordinary persons**, because it is his endeavour to **seek the truth in all things**, to the extent permitted to human reason by God.

– *Nicolaus Copernicus*

2

The law of universal gravitation



$$F_1 = F_2 = G \frac{m_1 \times m_2}{r^2}$$

“

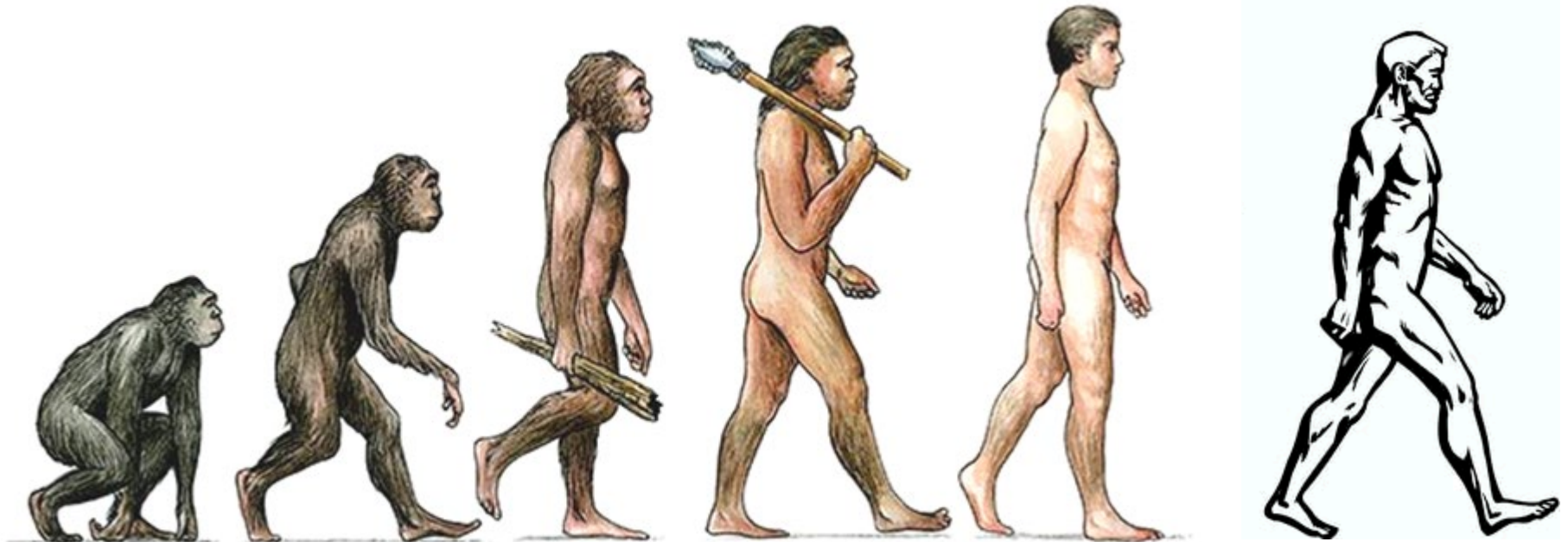
Gravity explains the motions of the planets but it cannot explain who sets the planets in motion.

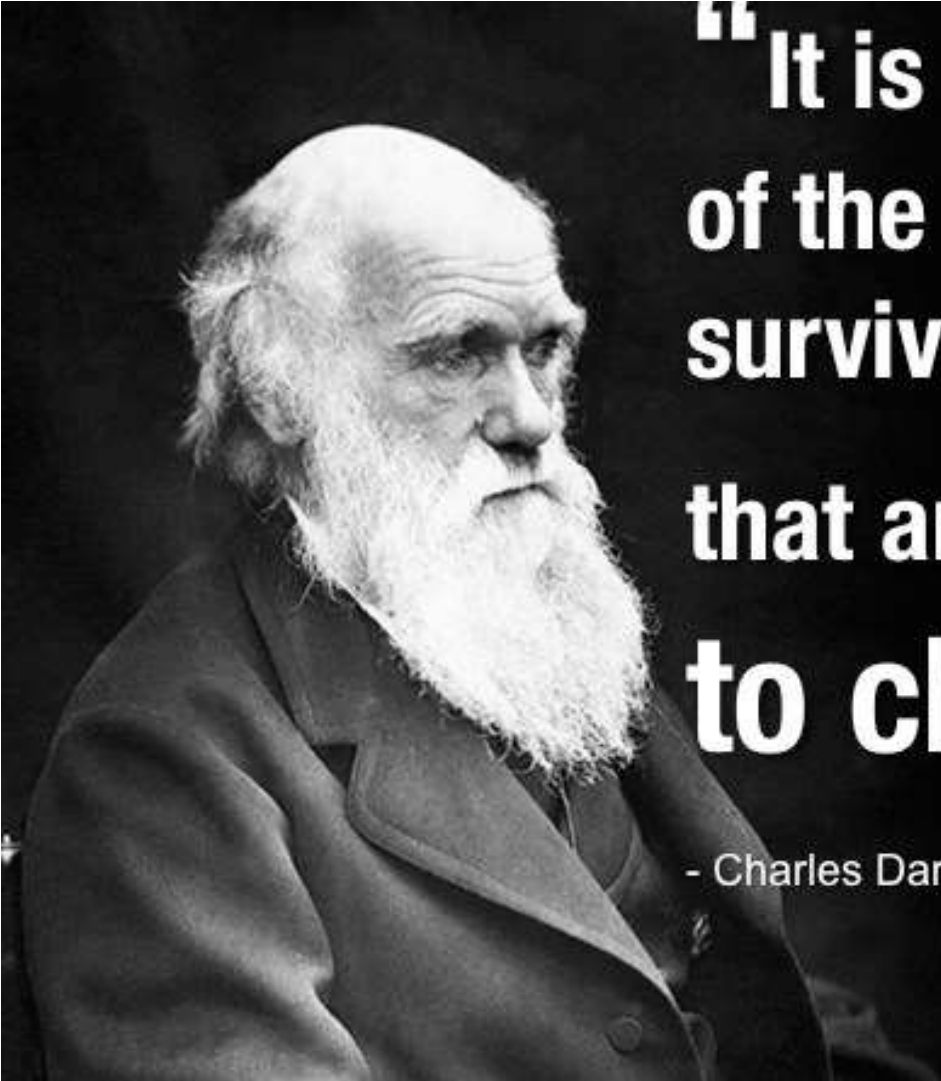
- *Isaac Newton*



The theory of evolution

All species are related and gradually change over time.



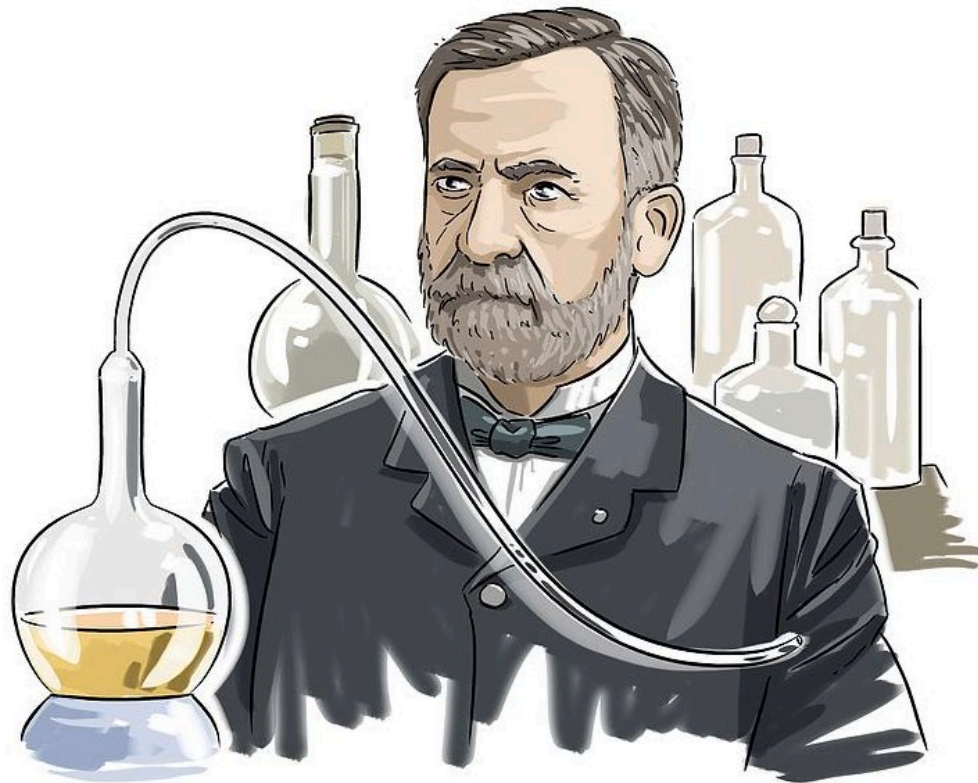
A black and white portrait of Charles Darwin, showing him from the chest up. He has a long, white beard and is wearing a dark coat. The background is dark.

**“It is not the strongest
of the species that
survive, but the ones
that are **responsive
to change.**”**

- Charles Darwin

Pasteurization

The process of heating and cooling food to kill bacteria.



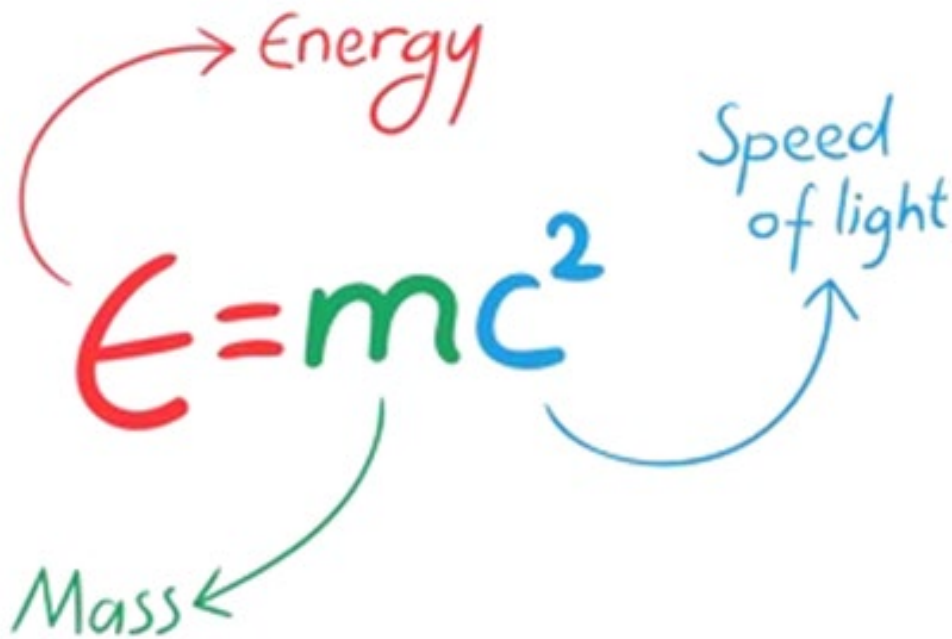
The Theory of Relativity

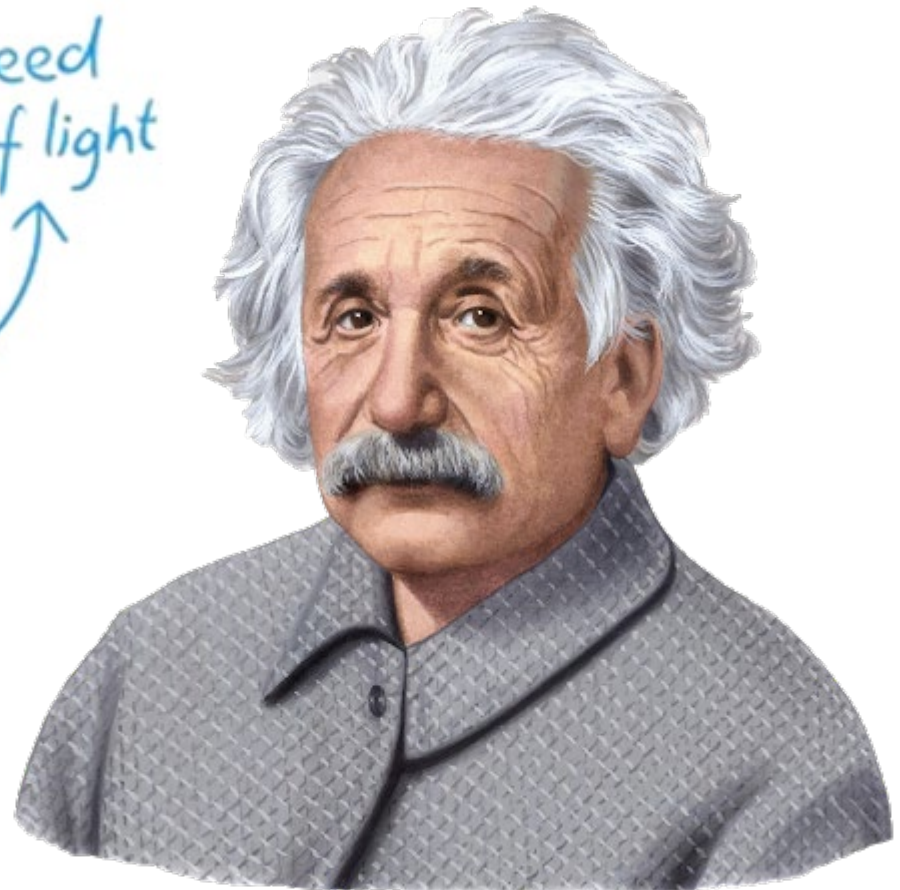
$$E=mc^2$$

Energy

Speed of light

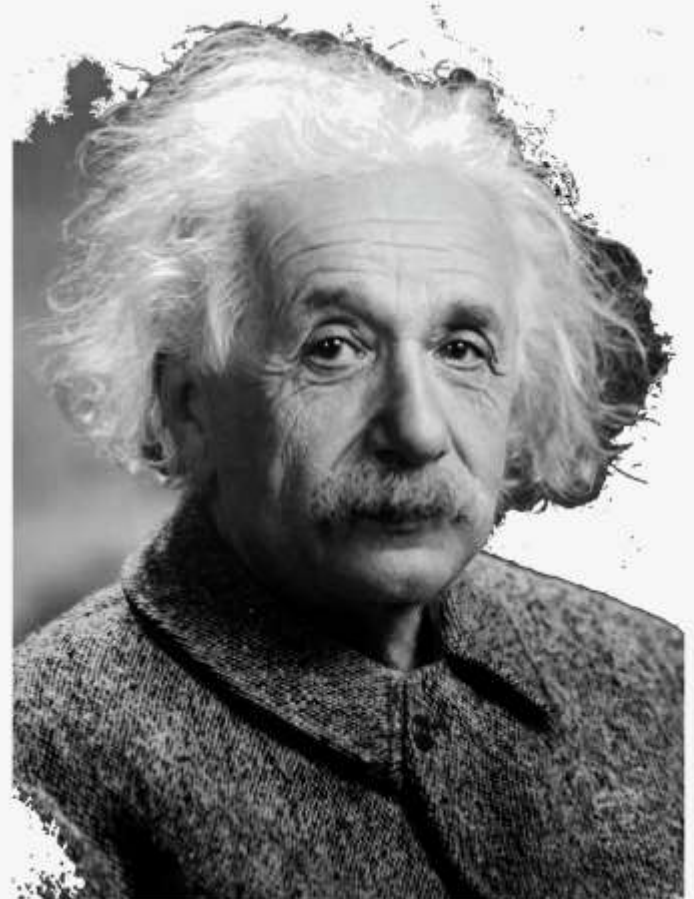
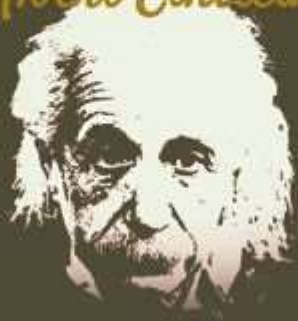
Mass

A diagram illustrating the equation $E=mc^2$. The letter 'E' is red, 'm' is green, and 'c' is blue. A red curved arrow points from the 'E' to the word 'Energy' written in red. A green curved arrow points from the 'm' to the word 'Mass' written in green. A blue curved arrow points from the 'c' to the words 'Speed of light' written in blue.



WHEN YOU ARE COURTING A NICE GIRL
AN HOUR SEEMS LIKE A SECOND
WHEN YOU SIT ON A RED-HOT CINDER
A SECOND SEEMS LIKE AN HOUR
THAT'S RELATIVITY

Albert Einstein



The Big Bang Theory

The universe as we know it started with a small singularity, then inflated over the next 13.8 billion years to the gigantic cosmos that we know today.



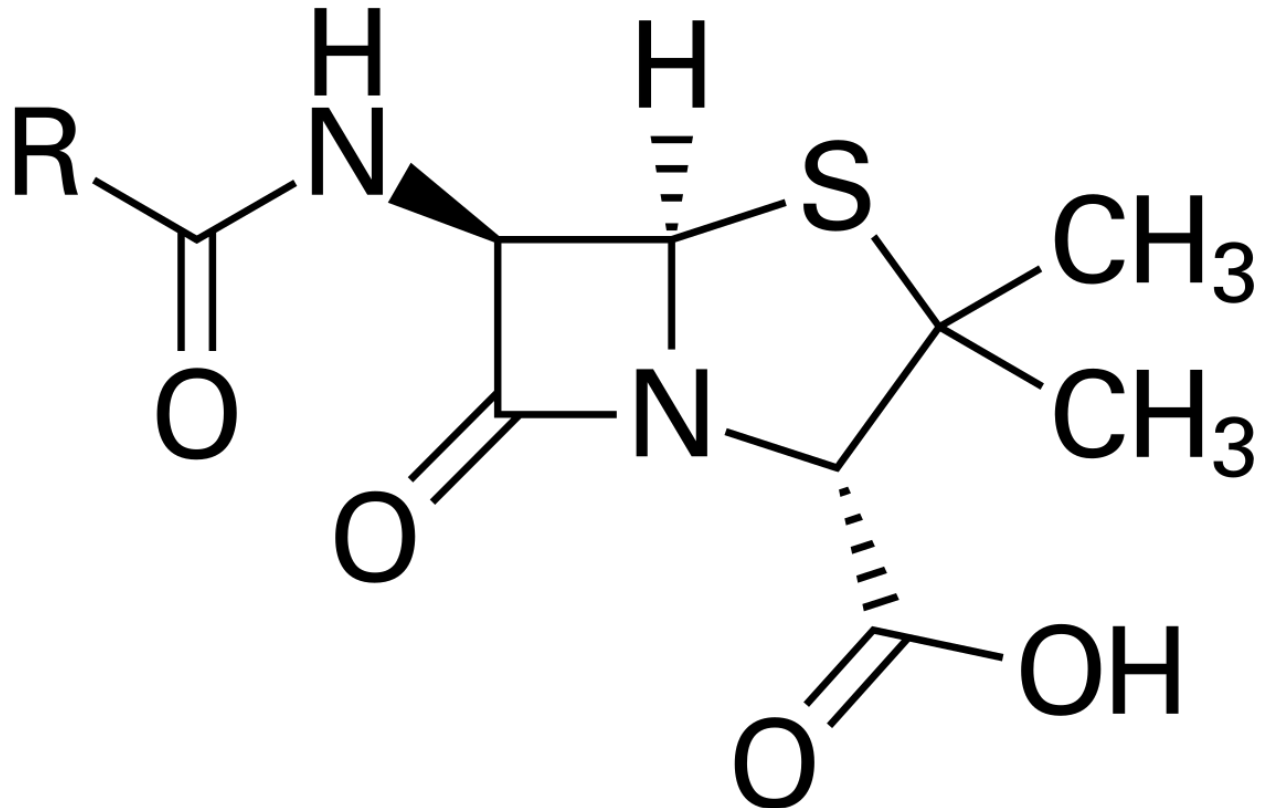


Scientific progress is the discovery of a more and more comprehensive simplicity... The previous successes give us confidence in the future of science: we become more and more conscious of the fact that the universe is cognizable.

— *Georges Lemaitre* —

Penicillin

Antibiotic used to treat a wide range of bacterial infections.



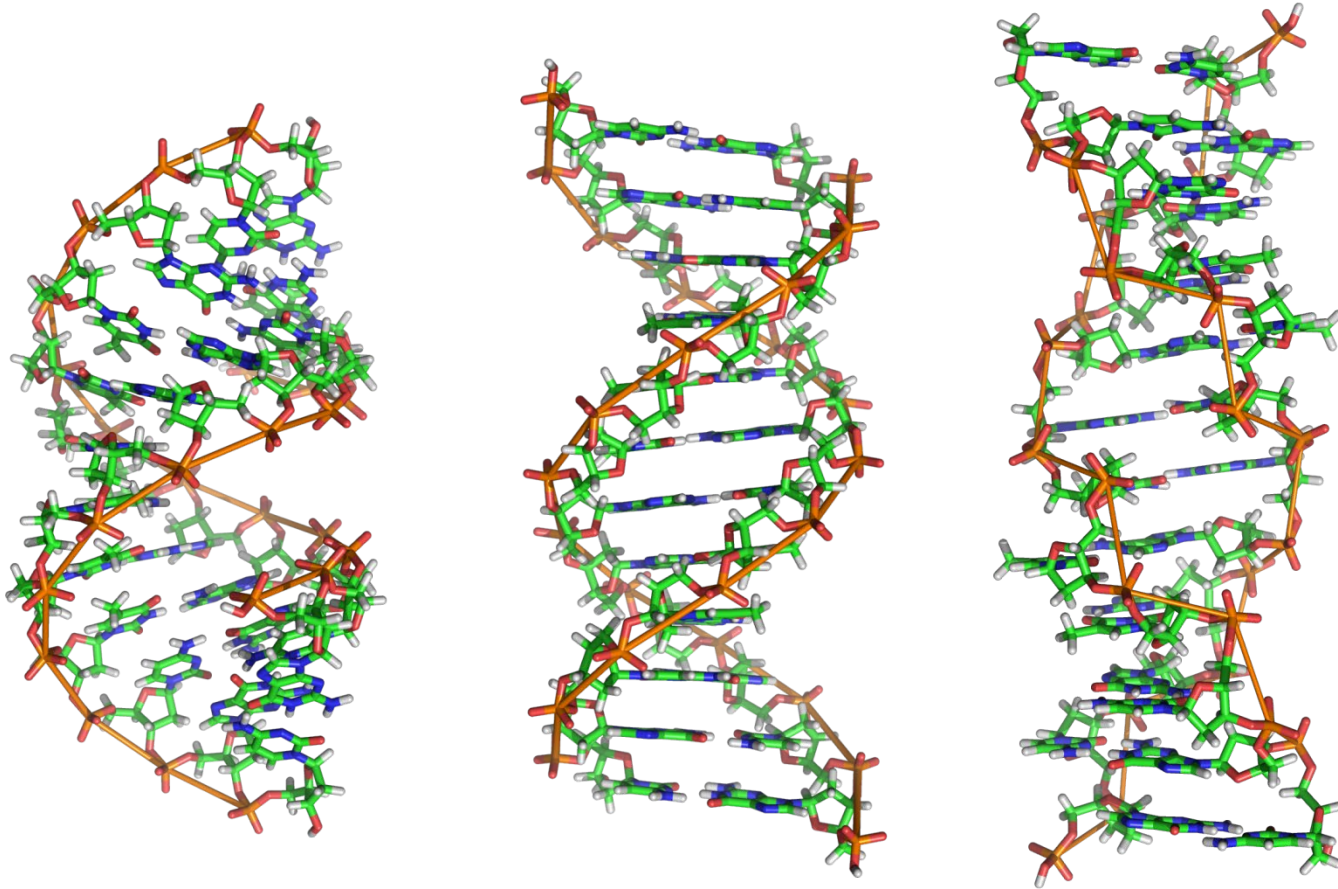


**Great discoveries
and improvements invariably
involve the **cooperation**
of many minds.**

— *Alexander Graham Bell*

DNA

The molecule that carries genetic instructions in all living things.

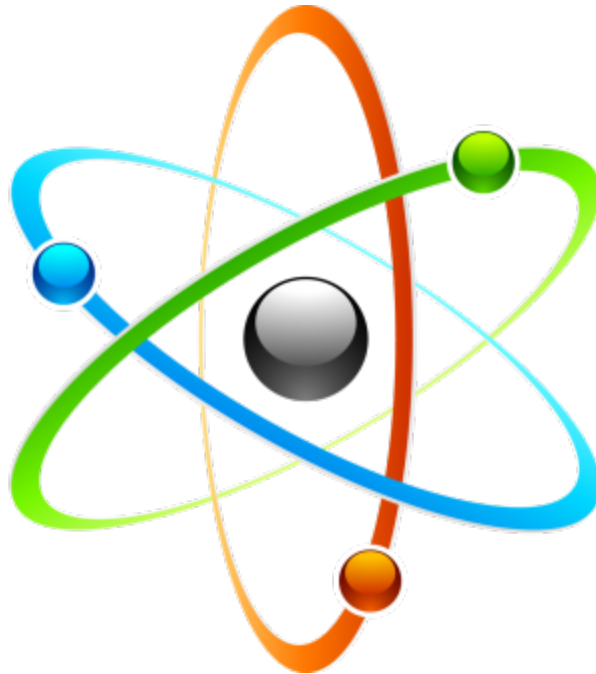


It's good to know
where you come from.
It makes you what you
are today. It's DNA, it's
in your blood.

Alexander Mcqueen

Periodic Table

The organized array of all the chemical elements in order of increasing atomic number.



Periodic table of the elements

group

1*

period

1

1

H

2

3

Li

4

Be

11

Na

12

Mg

19

K

20

Ca

37

Rb

38

Sr

55

Cs

87

Fr

21

Sc

22

Ti

39

Y

72

Hf

104

Rf

23

V

24

Cr

40

Zr

73

Ta

105

Db

25

Mn

26

Fe

41

Nb

74

W

106

Sg

27

Co

28

Ni

42

Mo

75

Re

107

Bh

29

Cu

30

Zn

43

Tc

76

Os

108

Hs

31

Ga

32

Ge

44

Ru

77

Ir

109

Mt

33

As

34

Se

45

Rh

78

Pt

110

Ds

35

Br

36

Kr

46

Pd

79

Au

111

Rg

47

Ag

80

Hg

112

Cn

48

Cd

81

Tl

113

Nh

49

In

82

Pb

114

Fl

50

Sn

83

Bi

115

Mc

51

Sb

84

Po

116

Lv

52

Te

85

At

117

Ts

53

I

86

Rn

118

Og

54

Xe

56

Ba

88

Ra

57

La

89

Ac

118

Og

117

Ts

116

Lv

115

Mc

114

Fl

113

Nh

112

Cn

111

Rg

110

Ds

109

Mt

108

Hs

107

Bh

106

Sg

105

Db

104

Rf

103

Lr

102

No

101

Md

100

Fm

99

Es

98

Cf

97

Bk

96

Cm

95

Am

94

Pu

93

Np

92

U

91

Pa

90

Th

71

Lu

70

Yb

69

Tm

68

Er

67

Ho

66

Dy

65

Tb

64

Gd

63

Eu

62

Sm

61

Pm

60

Nd

59

Pr

58

Ce

Alkali metals

Alkaline-earth metals

Transition metals

Other metals

Other nonmetals

Halogens

Noble gases

Rare-earth elements (21, 39, 57–71) and lanthanoid elements (57–71 only)

Actinoid elements

lanthanoid series

actinoid series

6

7

18

2

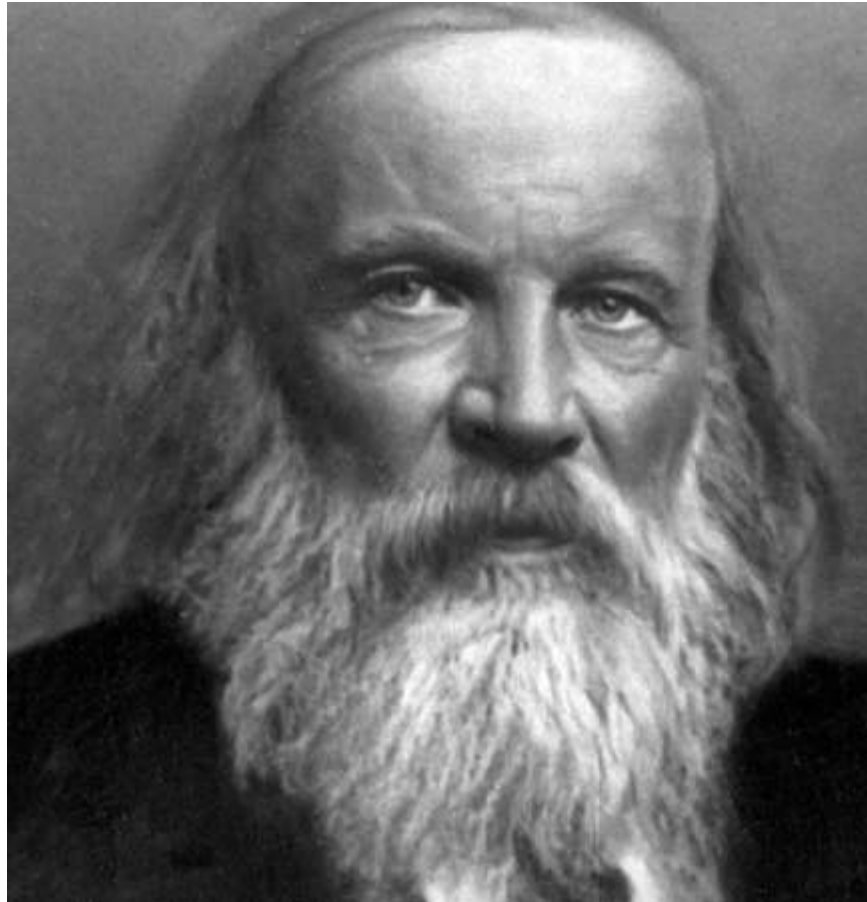
13

14

15

16

17



**“You invent the
Periodic Table, they
love you. But
suggest one Algae
Barstool and you’re
an idiot.”**

**-Dmitri Mendeleev
on scientific
obstacles**

X-Rays

A very energetic form of electromagnetic radiation that can be used to take images of the human body.



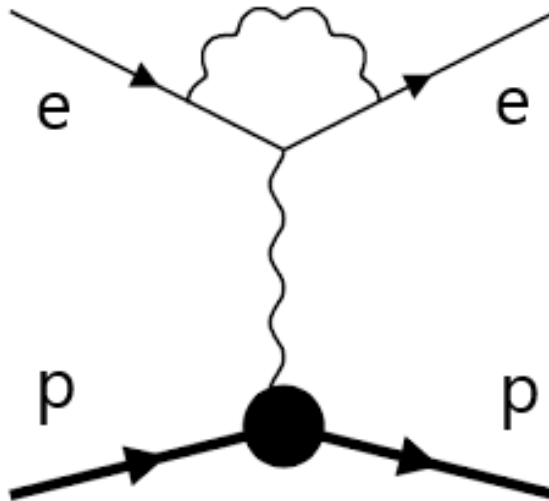
I did not think;
I investigated.



Wilhelm Conrad Röntgen

Quantum Theory

**Description of the physical properties of nature
at the scale of atoms and subatomic particles.**



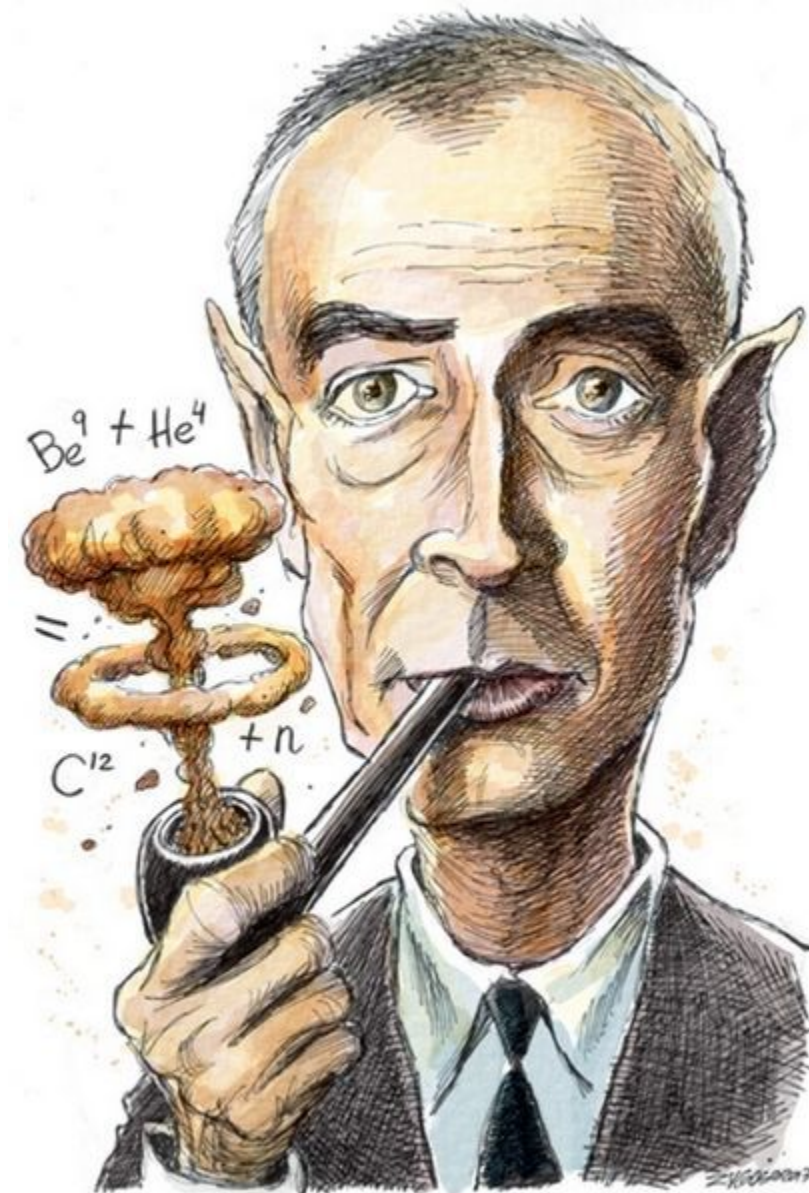
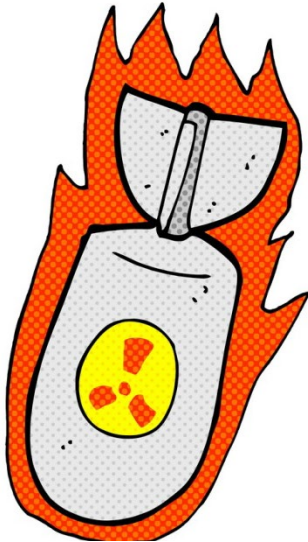


**SCIENCE CANNOT SOLVE THE
ULTIMATE MYSTERY OF NATURE.
AND THAT IS BECAUSE, IN THE
LAST ANALYSIS, WE OURSELVES
ARE A PART OF THE MYSTERY
THAT WE ARE TRYING TO SOLVE.**

- Max Planck

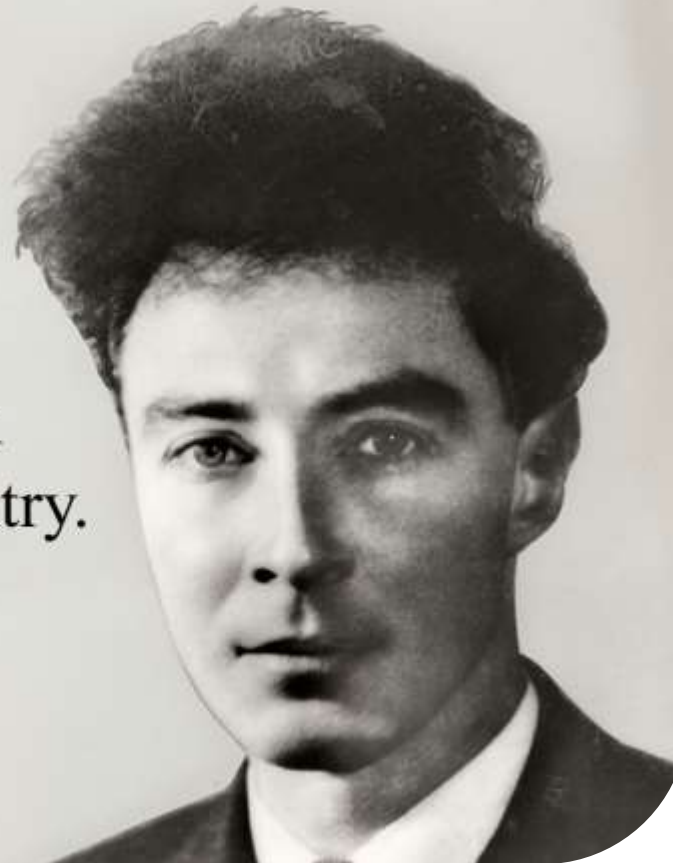
Atomic Bomb

An explosive device that derives its destructive force from nuclear reactions.



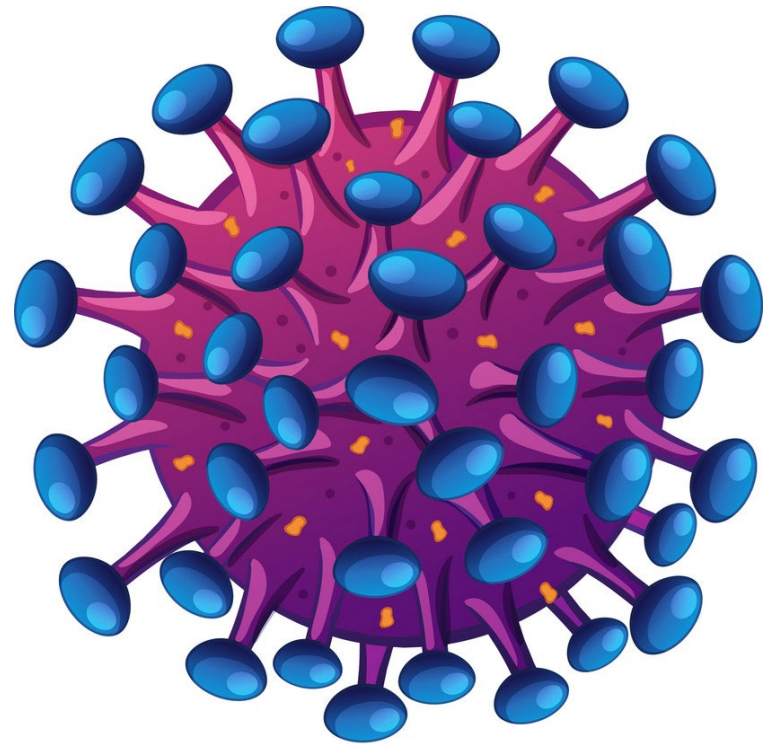
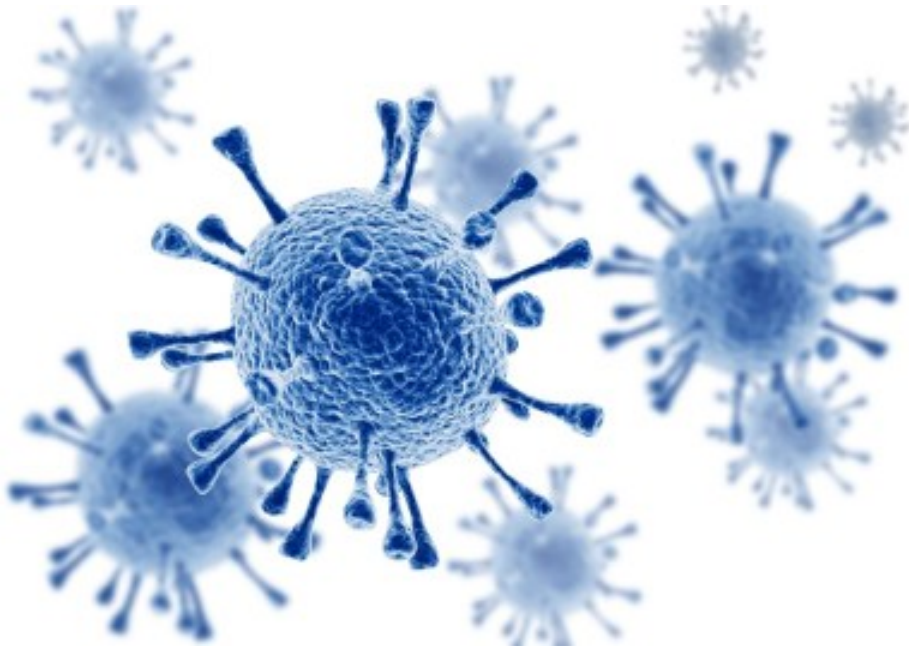
The atomic bomb made the prospect of future war unendurable. It has led us up those last few steps to the mountain pass; and beyond there is a different country.

J. Robert Oppenheimer



HIV virus

A virus that attacks the body's immune system.



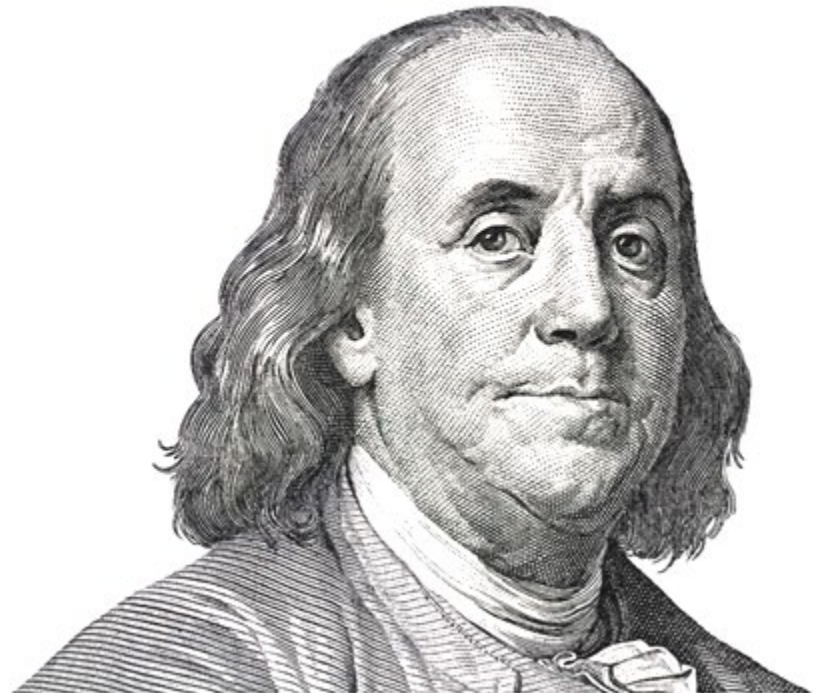
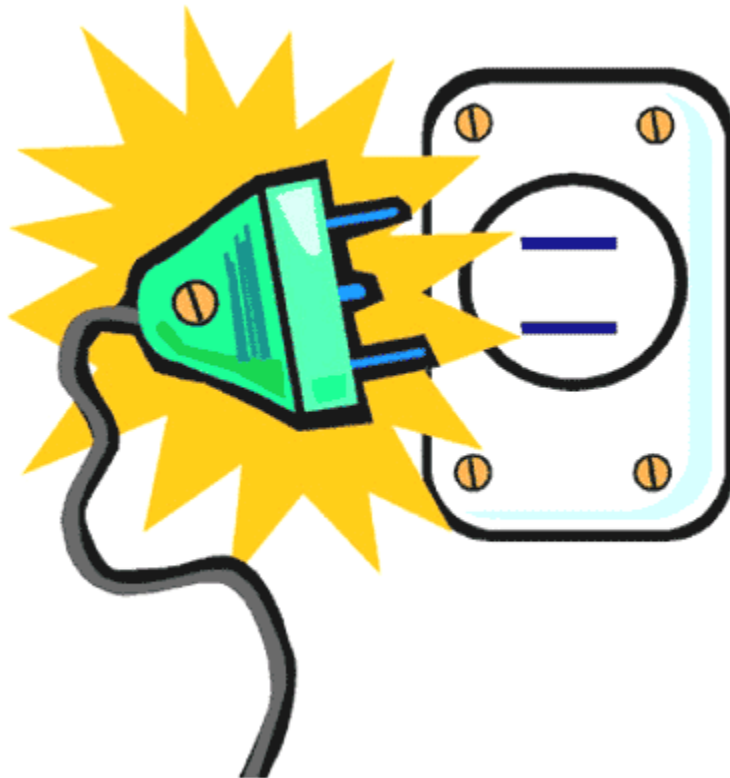


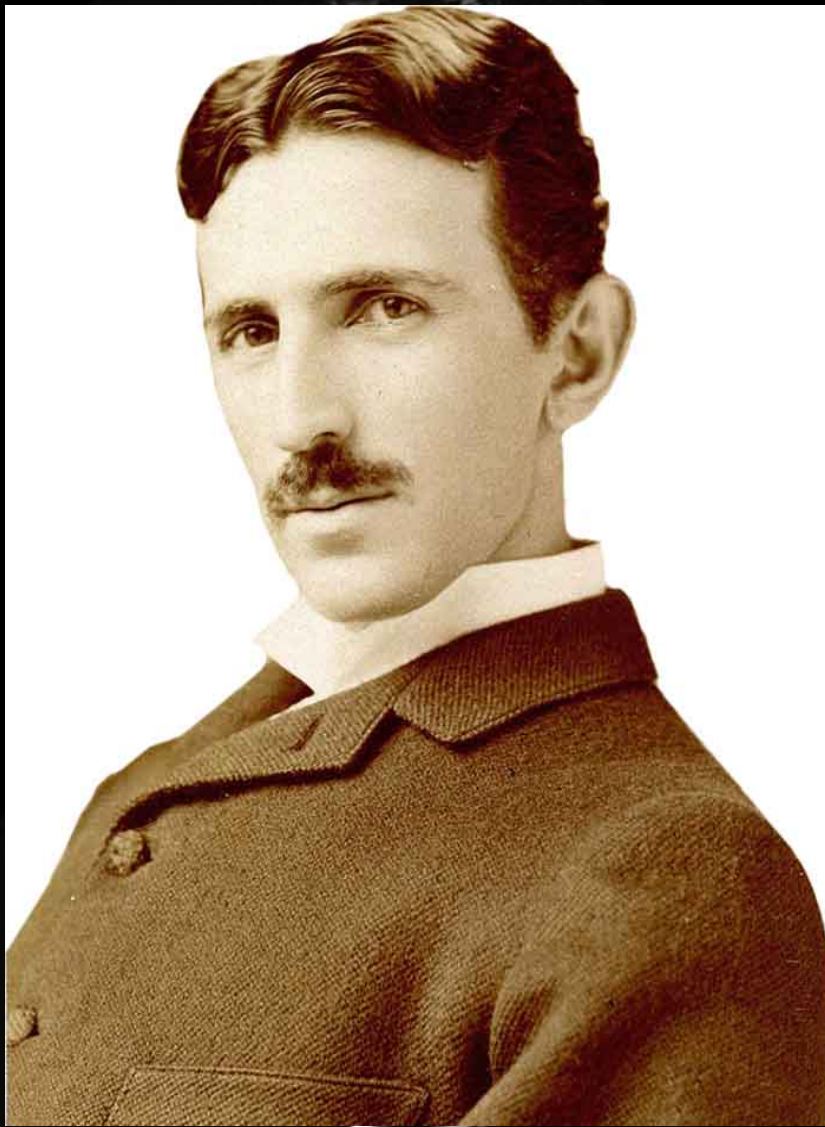
Notwithstanding my experiments with electricity the thunderbolt continues to fall under our noses and beards; and as for the tyrant, there are a million of us still engaged at snatching away his sceptre.

(Benjamin Franklin)

Electricity

The presence and flow of electric charge.





**What one man calls
God, another calls
the laws of physics.**

- Nikola Tesla