

SEEKING SCIENCE

by STEM Action Teen Institution



IN THIS ISSUE

ASTRONOMY 101

**TECHNOLOGY &
PHYSICAL SCIENCE**

MATHEMATICS

AND MORE...

A MONTHLY NEWSLETTER
ON ALL THINGS STEM

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TABLE OF CONTENTS

Seeking Science



Table of Contents	1
Astronomy 101 by Ocean Y.	2
Technology's Effect on Physical Science by Steve L.	3
Innovation in Technology by Ioifei L.	4
Benefits of Psychology by Joshua H.	4
The Study of Mathematical Sciences by Darren W.	5
Why are Masks Essential by Angelina C.	6
Why do Animals Migrate? by Bingchen L.	6
Chang'e 5 by Mingfeng L.	7
Plant Maintenance and Care by Hison Z.	7

Astronomy 101

by Ocean Y.

Astronomy is a natural science that studies celestial objects and phenomena. It uses mathematics, physics, and chemistry in order to explain their origin and evolution. Objects of interest include planets, moons, stars, nebulae, galaxies, and comets. Astronomy has always been a mind-blowing factor of our existence. However, it's not just humans doing all the work, it also the instruments. One of the instruments would be telescopes. There are many different telescopes used in astronomy, most of which are massive, and have special qualities.



Although the Greeks and Chinese did not have a clear idea of what they were observing, it is said that they could view these “clouds” in the sky. As time went by the concept of nebulae from the time of early Greek's and the Chinese up to recent days has changed considerably many times, following up an emergence of theories and inventions. Ancient Greek Astronomy Imagine if the ancient world didn't make any discoveries and the people of today had to start without any prior knowledge. In about 500BC the ancient Greeks had an explosion of astronomical discoveries.

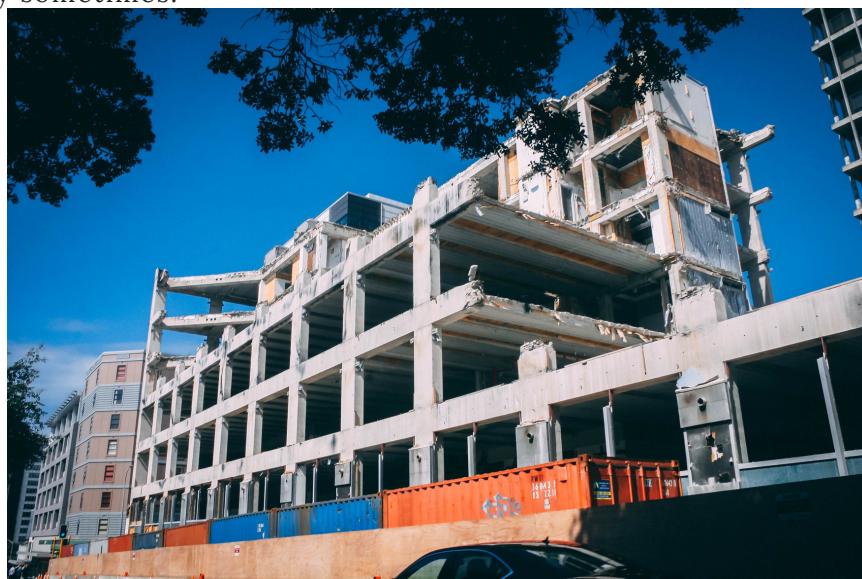
The ancient Greeks wanted to know the answer to one big question; how does the universe work? The ancient Greeks contributed to astronomy through the discoveries about Earth, the universe, and the tools they used. Math's relationship with astronomy is one of the most unappreciated sciences to this day. Math has not only allowed us to begin to answer some of life's greatest questions that were only discussed in religion and story, but it has enabled us to see further than we have ever seen into the vast universe we exist in through astronomy. Math has often been described by the greatest minds of our species as the language of the cosmos. Astrophysics is the branch of astronomy that employs the principles of physics and chemistry to ascertain the nature of the heavenly bodies, rather than their positions or motions in space. A few of the objects studied are the Sun, other stars, galaxies, extrasolar planets, the interstellar medium, and the cosmic microwave background. The study of our very own Sun has a special place in observational astrophysics.

Technology's Effect on Physical Science

by Steve L.

There are a lot of different kinds of machines that can do things that a human can't do. First of all, a car is one kind of machine that can help you go to places very fast. For example, if you want to go to a place that is very far away you need to drive a car to go there or else it will take a long time. Next, a sewing machine is a machine that can save your energy. For example, if you try to sew clothes or other things with your hand you will waste your energy and you will get very tired but if you use a sewing machine you will be able to sew clothes very quickly and you won't waste your energy. In addition, if you put a vending machine at the sidewalk you can get a lot of money and a vending machine is a machine where you can buy snacks to get energy if the place you're at doesn't have a restaurant. For example, sometimes when you're driving or when you're walking you will get tired but if there is a vending machine near you, you can buy drinks and snacks to gain back energy. Last, the lightbulb is a machine that we see everyday. For example, a lightbulb can help you see where you're going and where you are. In conclusion, there are a lot of different machines that can help you to do something you can't do.

Have you ever wondered how earthquakes happen and how dangerous it is? I will be telling you how earthquakes and how dangerous it is. First of all, earthquakes happen when two tectonic plates get stuck to each other and the two tectonic plates will try and move away from each other. When the two tectonic plates move away from each other they release an energy called the earthquake. They mostly release small amounts of energy of earthquakes but when they release a big amount of energy of earthquakes, it can be very dangerous. Next, earthquakes sometimes can destroy buildings and it can even destroy a village if it releases a very big amount of energy. Last, an earthquake in Shaanxi, China in 1556 is the deadliest earthquake ever recorded and it killed about 830,000 people. As you can see, earthquakes can even be deadly sometimes.



Innovation in Technology

by Ioifei L.

Every year new technology is released to the world to use, and test. For example, people make helpful new technology but sometimes people tend to forget books and things that are not a device and not to rely on devices. For example, people will become more lazy and lose their skill except being lazier but some technology helps people to exercise and learn new things but it still doesn't mean that we could rely on technology. A person's brain can remember a lot of things but if we lazy our brains, we might not remember much and if technology suddenly disappeared, people might not know what to do and how to survive without technology. For example, people will forget how our ancestors survive and stress too much people might not survive but some people who don't rely on technology much might find new ways to survive and invent new things that doesn't kill or harm good things or our resources and rediscover new discoveries or even find new mysterious and cool discoveries that we might need. Informationally, people only need half of technology and the rest will be for our skill.



Benefits of Psychology

by Joshua H.

We will discuss how psychology is being used worldwide to benefit people and make the world a better place. First, psychology is the scientific study of the human mind and its functions, especially those affecting behavior in a given context. Psychology can help scientists learn about how people react to a particular liquid or food. Using the info, people can create foods that are safer for people with specific reactions.

Psychology can also help doctors understand people with disabilities and how to treat them. Psychology helps inform people about natural processes that people have, such as dreams. Without the knowledge of psychology, the world would be an entirely different place. People wouldn't know what the brain is utilized for and the information that it provides us. Overall, psychology is essential to humans, and it makes the world a better place.

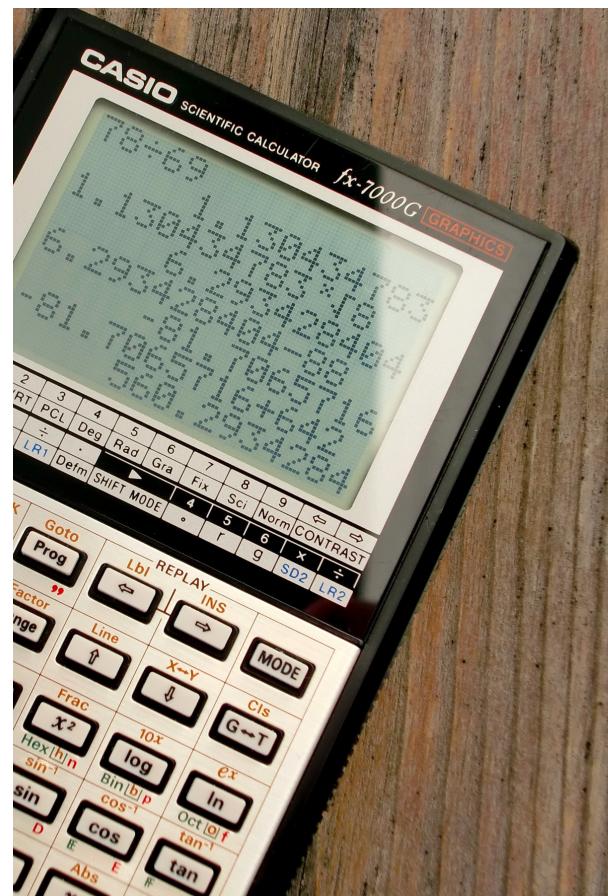
The Study of Mathematical Sciences

by Darren W.

Have you ever solved math problems before? If you had, try to think how you solved your problem. All math problems need to have a special secret formula in order to be solved. Mathematics is very fun and after you learn one form of math, you would want to learn all types of other mathematics. Why?

Because if you can solve math problems very quickly and easily, then you are a smart kid/student. But today, I will be telling you the different formulas and different types of math. First of all, Math could be different types such as Addition, Subtraction, Multiplication and division. But there's way more than just those. There's Pre Algebra - Algebra 2, measurements, geometry. There are also way more than this but today I will be only talking about these common types of math problems. After, In Pre Algebra - Algebra 2 it includes several other math types which are natural number arithmetic. New types of numbers such as integers, fractions, decimals and negative numbers. Manipulation and arithmetic with the standard 4-quadrant Cartesian coordinate plane. In those types there's different types of formula to solve those problems. Such as Standard 4 - quadrant cartesian coordinate plane. You need to find the X and Y intercepts then look at the numbers on the coordinate plane. Afterwards, In Addition, Subtraction, Multiplication and division. There's orders of operations and in the orders of operations there's many other types of operations, big and small brackets and even parentheses.

You need to know that the order of operations is PEMDAS, it's an acronym for parentheses go first, big brackets then small brackets then exponents, then multiplication and division left to right, then addition and subtraction left to right. Eventually, In measurements there's inches, yards, kilometers, meters and centimeters and even miles and feet. One yard is 3 feet and one feet is 12 inches, 1 inch is 10 centimeters and one kilometer is 3280.84 foot. One miles is 5280 foot. Finally, we have geometry, geometry is shapes such as a triangle, quadrilateral, pentagon, hexagon, heptagon, octagon, nonagon and decagon. For geometry the most important part of it is the Area and Perimeter but not every shapes area is the same. Not every shaped perimeter is the same. A triangle is a shape with 3 sides. A Quadrilateral is a shape with 4 sides. A pentagon is a shape with 5 sides. A hexagon is a shape with 6 sides. A heptagon is a shape with 7 sides. An octagon is a shape with 8 sides. A nonagon is a shape with 9 sides and a decagon is a shape with 10 sides. Last but not least, that is what is in math, probably there's way more than what I wrote in the essay. Hope you enjoyed the things that I included, hope you learned at least a little bit of something that you did not know.



Why Masks are Essential

by Angelina C.

Many of us do not understand why masks are mandatory for us to wear, but masks keep other particles coming inside our mouths and noses. The masks go through a process called filtration, which helps to protect us from other particles. It traps large and small particles and filters it when you are breathing out or coughing. Masks can help us prevent 95% of the particles from coming into our nose and mouth. The other 5% we can prevent by staying 6 feet apart and wash our hands often to prevent viruses going into our eyes when touching them. During this pandemic, masks take an important role in protecting us from the virus, but choosing the right mask is essential. Experts recommended wearing fabric and surgical masks for us and we don't need to wear N-95. Knowing how to wear masks are essential too, you need to let the mask cover your nose and mouth, and make sure it is not too loose or tight.



Why do Animals Migrate?

by Bingchen L.

Do you know why animals migrate? They need to survive in many ways. In nature many animals migrate for different reasons. First, animals travel because some animals need food to survive. Some animals like humpback whales need food for their birth.

Next, animals like whales need warmth to raise young. Ruby Throated hummingbirds, monarchs, other birds, and insects need warmth too to survive. Last, animals migrate because they need to raise young. Animals like Monarchs and whales have life cycles. Monarchs lay eggs on milkweed plants during the long journey. In Conclusion, animals need to migrate. They migrate for different reasons. Animals survive in different ways.

Chang'e 5

by Mingfeng L.

On November 24, 2020, in China Hainan, Chang'e Five has successfully launched, this is the final mission of those three "surround, fall, return", the back, China trying to bring soil from the moon, this will be the first time for China, and humans have brought back lunar samples from the moon after 44 years. In January 2004, the State Council of China formally started the lunar exploration project. The project was called "Chang'e Project" and was put into three parts: "around, fall, and return".

The Chang'e-5 probe is the third part of China's lunar exploration project. The time for the third part of the project is from 2011 to 2020, the goal is to walk around on the moon and take samples to return to the earth. Chang'e will first fly off from the moon orbit; the rocket will dock in moon orbit beyond 380,000 kilometers. In December first, Chang'e has landed successfully on the part that is in the plan on the moon, in the next two days, Chang'e 5 will start to dig the soil on the ground and under the moon about 2 meters, it may take about 2 kilograms, this mission is about 20 days, when Chang'e 5 is finished, Chang'e 5 will start to take off and then reach the orbit of the moon, and start to dock with the returner.

When Chang'e 5 successfully returns to earth, this soil will be used in laboratory research, and to analyze the moon's soil structure, physical properties, material composition, and to learn the history, evolution of the moon.

Plant Maintenance and Care

by Hison Z.

Have you ever thought about plants? Well, you might think they're just not useful. Well, actually the leaves help you breathe and the flowers might become fruit depending on which type you get. The plants need water and soil to survive, don't use other liquids or else your plant may die. You need a proper plant pot if it is a little one and if it is a big one, plant it in the dirt, you also need the sun light or a plant light and take care of it. Also here are some examples of what you can get out of them, apples, oranges, pears and way much more.

And you can grow your favorite fruit and the ones that only grow flowers, you give them soil and water to and sun. If it is a small plant, keep it in a pot with water and soil with sunlight when it is bigger, put it on the ground and plant it so you have fresh flowers or fruits. Over 7 billion trees are cut in a year and damaging animals' habitats, you can help by planting more plants in the forest or at your own home, animals like birds and squirrels and even more animals.

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