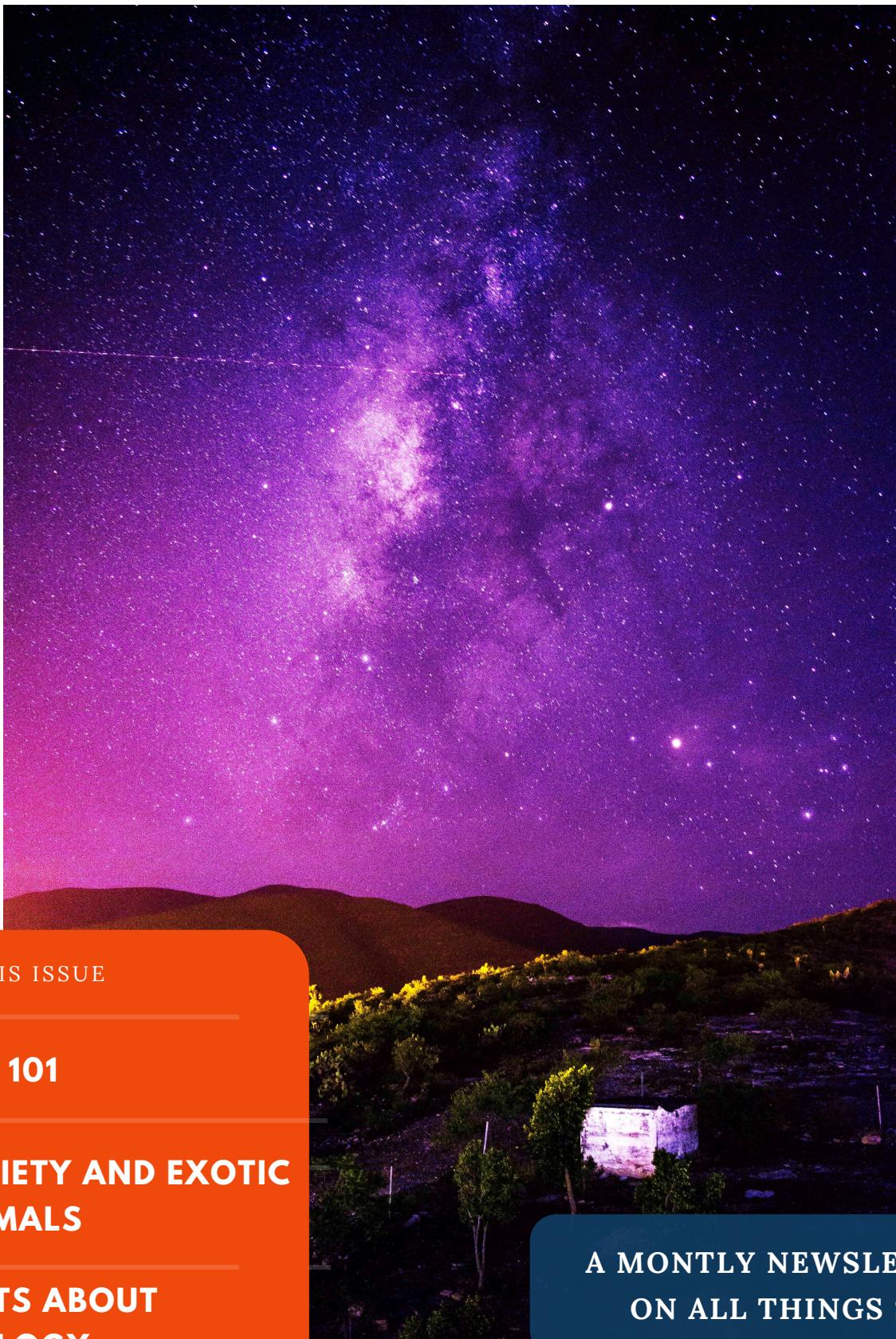


# SEEKING SCIENCE

by STEM Action Teen Institution



IN THIS ISSUE

DNA 101

SOCIETY AND EXOTIC  
ANIMALS

FACTS ABOUT  
ECOLOGY

AND MORE...

A MONTHLY NEWSLETTER  
ON ALL THINGS STEM

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# What is Zoology?

by Ocean Y.

The investigation of zoology can be seen as a progression of endeavors to dissect and group creatures. Endeavors at characterization as right on time as 400 BC are known from reports in the Hippocratic Collection. Aristotle, in any case, was quick to devise an arrangement of ordering creatures that perceived an essential solidarity of plan among different life forms; he masterminded gatherings of creatures as per method of generation and natural surroundings. Noticing the improvement of such creatures as the dogfish, chick, and octopus, he noticed that overall constructions show up before specific ones, and he likewise recognized agamic and sexual propagation.

Zoology is the part of science that is committed to the animals of the world collectively and studies creatures for research. Since the mid 400 b.c we have been intrigued with the animals that live among us. Creatures as we came to call them, turned into the focal point of perception in our exploration, and from that point forward we have taken in a great deal about them. In any case, one thing we had attempted to do since 400 b.c was to arrange these animals, and that was known as the Hippocratic assortment.



# Vaccine Chemical Composition

by Haobin L.

Vaccines are like tests for the body to how to fight them. First, it contains thimerosal and neomycin so there is less contamination. Second, some Adjuvants are added to make the injection site more reactive to the body. Third, stabilisers stabilize the vaccine vial. Fourth, raw stuff such as chicken eggs are made to make a reproduction place for the virus. Lastly, formlahide is a chemical that weakens the virus. As you can see, that's the ingredients in flu vaccines.



# Power of Engineering

by Xiulin G.

Engineering can make a lot of things. For example you can make a robot if you know engineering. Engineering can be a lot of fun if you know how to do it. You can make a lot of things when you know engineering. Let's just talk about the facts.

- The Snowboard was invented by an Engineer
- The snowboard has become a wonder of geometry, chemistry, and biomechanics. Due to its design, it allows the athlete to make precise turns with less exertion.
- Running Shoes are Designed by Engineers
- Engineers determine how much force travels from the pavement through the shoe to the foot. Through their calculations and design, weight is dispersed through the entire foot, allowing better performance and comfort.
- Thank an Engineer for that fun Water Slide
- A water slide uses a pump to circulate the correct amount of water to go down the slide. There is no ride without the right amount of water. The slide is also designed to handle the weight of people and water combined.
- The Launch and Return of Spacecraft is an Engineering Victory
- The Space program has changed the world. It would not be possible without the progress by engineers in materials, structures, computers and energy.



# COVID-19 Impact

by Angelina C.

COVID-19 made an impact on our lives, including our schedules, how we work, and changed our routine. Countries have struggled to control the spread of the virus, but as time passed, the vaccines were quickly developed. As the vaccines are given out to the people in each country, the cases and deaths that are caused by a new mutated virus are spreading in India. This new mutated virus is more contagious, and it is more effective because of the population.

As of May 4, more than 20·2 million cases of COVID-19 had been reported, with a rolling average of 378 000 cases a day, and in total with more than 222 000 deaths. There is a lot of news that the cases are increasing everyday, as well as the death rates. Since the people who are in critical conditions need oxygen to help them breathe, India is in shortage of oxygen tanks. Many countries around the world have shipped or delivered oxygen to help India to fight the COVID-19 virus.

# Function of a Keyboard

by Samuel L.

A keyboard is used to enter data into your machine, such as letters, sentences, and numbers. When you type, you use the individual keys on the keyboard. The number keys that run across the top of the keyboard can also be found on the right side. The letter keys are located in the keyboard's middle.

A gaming keypad is a small auxiliary keyboard specifically designed for gaming. It only has a few of the original keys from a normal keyboard, but they're arranged in a more ergonomic way to help you click keys quickly and efficiently when gaming. The 'W', 'A', 'S', 'D', and the keys next to and adjacent to these keys are the most frequently used keys for gaming on a device. WASD refers to these keys and the way they are used on a keyboard. A gaming keypad will also provide additional features such as volume control, the Esc key, and the F1–F12 keys, in addition to optimizing the WASD layout.

Normal Keyboard vs. Gaming Keyboard Riley, Axel 15th of February, 2020

Gaming keyboards are designed to meet the demands of in-game situations. When playing competitively, a quick response and reaction time are important. Ergonomics are often prioritized in regular keyboards for a more relaxed and improved typing experience. The configuration of the keyboard and the switches used are usually the most important variations.



# The Concept of Psychology

by Joshua H.

To begin with, what is psychology? Psychology is the study of the scientific study of the human mind and its functions, especially those affecting behavior in a given context. The study of psychology is pretty brand new. There are many different concepts of psychology. Some famous scientists include Sigmund Freud, B.F Skinner, and Jean Piaget. The study of psychology has a very big impact on humans and the society since we can learn about our emotions and the brain and how it functions. Psychologists have conducted many different experiments to gather the information that we know about the brain today. Evidently, as new information comes along, old research is outdated. One of the founding fathers of psychology, Sigmund Freud, has all of his ideas and experiments outdated. Overall, psychology is a very important concept to know about for it allows us to learn about the intangible components of the human body.

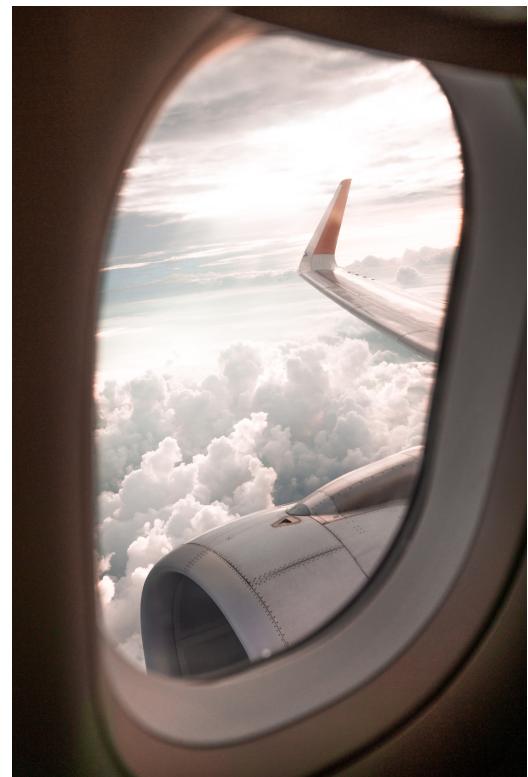


# Gravity Industries Jet Suit

by Mingfeng L.

A jet pack, rocket belt, or rocket pack is a device worn on the back which uses jets of gas or liquid to propel the wearer through the air. This concept has been present in science fiction for almost a century and became widespread in the 1960s.

In 2017, Gravity industries has launched the aircraft, In a test flight in 2019, the founder and chief test pilot of Gravity Industries, British inventor Richard Browning reached a speed of 85 miles per hour (approximately 137 kilometers), thus setting a new record for "body-controlled jet engine-driven equipment flight." The fastest" Guinness World Records. In the test on monday, may 8, it is on the British naval ship HMS Tamar (the second batch of river-class offshore patrol ships of the Royal Navy), they did a test that is called VBSS, which stand for (visit, board, search and seizure), VBSS is one of the most complex and dangerous maritime tasks. The executor can only perform effectively by wearing special equipment and undergoing complex training.



# Virtual Reality 101

by Nathan C.

VR means virtual reality. VR is a headset thing that you put on and everything there looks very real even though that is it all virtual. That is why it is called virtual reality. VR is very cool because you can play many different games like for example, Gorn, Beat Saber, Job Simulator, Vacation Simulator, and many many more games that you can play. You also have controllers that will be your hands.

The controllers have buttons that will interact with everything. The feeling of playing things in virtual reality is cool and sometimes scary. And you also can download games that are on your computer and transfer it to VR. Those are all the things that I know about Virtual Reality.



# Rain and Gravity

by Ioifei L.

Rain is a cycle by nature, it helps the world greatly. This is how rain comes first. First, water from big bodies of water evaporates into the sky by the sun then the droplets form into clouds, when the clouds get heavy, it starts raining. The rain falls down to water the plants or whatever under it gets watered or gets wet. Then the cycle starts over again. A question might come to some people, the question is what if rain does not exist? Well, I think that if rain doesn't exist, there would be a problem for the wild plants and trees to survive and people might not be able to enjoy rainy days. In conclusion, rain is an important thing to the world.

Gravity is a force that pulls anything down to the ground, it is also what keeps earth round and circulates around the sun. It was discovered by Sir Isaac Newton, he saw an apple fall from a tree and thought of forces of nature, he discovered gravity in 1687. Therefore, he names what he discovered as "the three laws of Newton". The first law is to stay in motion unless an uneven force acts, the second law is the acceleration depends on the mass of an object and the amount of force applied, the third law is for every action force, there is an opposition to the action force. But a Rajasthan minister claimed that Brahmagupta discovered gravity before Sir Isaac Newton over 1,000 years ago, before Sir Isaac Newton discovered gravity.



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