

SEEKING SCIENCE

by STEM Action Teen Institution



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A MONTHLY NEWSLETTER
ON ALL THINGS STEM

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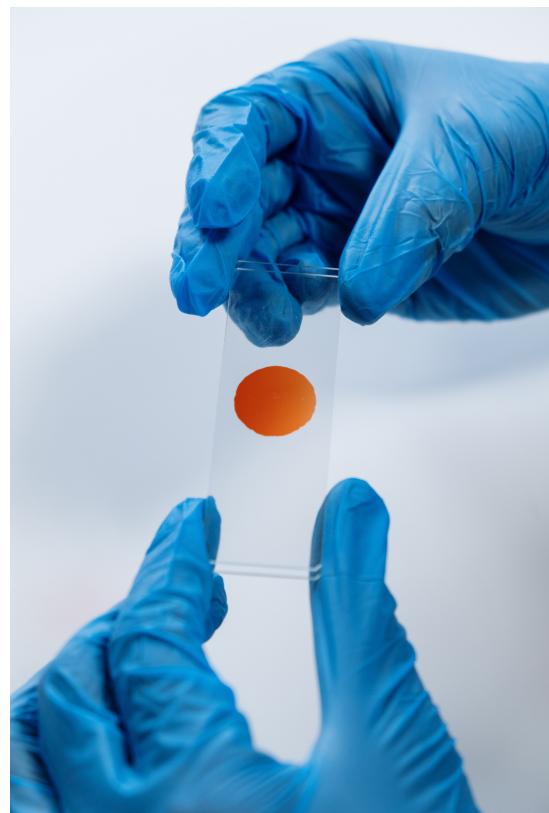


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DNA 101

by Anna Y.

DNA research consists of approximately 80% of participants of European ancestry. Despite the fact that this population might be invalid, the statistics are embedded with all the humans that are 99.9% genetically identical at the DNA level. Today, genomic studies remain largely focused on European populations. The use of more diverse populations helps assist the future, the data from these studies help scientists explore more possibilities to help improve human health. Conducting these genomic studies on diverse populations will also ensure enough time to expand the clinical research in the future. Researchers have shown that patients' response to medical treatments varies depending on race and ethnicity. Up to 75% of Pacific Islanders are unable to convert the antiplatelet drug into its active forms which result in them at higher risk for adverse outcomes. This will then cause angioplasty, a common remedy for cardiovascular disorders. Since 75% of Pacific Islanders have a genetic trait that makes them respond badly to a blood thinner clopidogrel, it will put them at risk of clotting and having frequent heart attacks. The incorporation of diverse participants will help discover this difference and pave the way for patient care. With diversity, it will aid researchers' ability to generalize study outcomes and make medical advances in successful treatments.



Nuclear Fission Effect on Environment

by Haobin L.

Nuclear fission is bad for the environment because it generates radioactive waste if uranium is used. Radioactive waste is harmful for most life forms and contaminates whatever it touches. A clean source is the sun. fusion of two hydrogen atoms makes helium and doesn't make any waste. Many can even make gold by two hydrogen that makes helium and heavier and heavier atoms.



Society and Exotic Animals

by Aden S.

Should society ban exotic animals because they cause many unnecessary deaths and deadly diseases? An issue that has been debated over time is whether or not people should be able to own dangerous exotic animals. Throughout history, people have argued whether exotic animal ownership is safe or deadly. It is obvious that exotic animals are dangerous, and it should be illegal. Wild animals should not be pets because they cause death, transmit diseases, and endanger animals.

One reason why exotic animals should not be kept as pets is because they can cause death. In the editorial, "Wild Animals Aren't Pets," the author states, "In 2009, a 2-year-old Florida girl was strangled by a 12-foot-long Burmese python, a family pet that had gotten out of its aquarium" (USA today 224). This shows exotic animals are dangerous to society, threaten citizens, and injure humans. Animals may kill if being threatened. Also, police might kill the exotic animals. This shows that exotic animals could threaten and kill humans because with unpredictable behaviour exotic animals can danger citizens, injure humans, or worse, kill citizens. Therefore, if exotic animals can injure citizens or cause chaos, then they should not be owned for the safety of the public. All in all, society should not keep wild animals as pets because they can cause grave injuries to humans.

One reason why exotic animals should not be kept as pets is because they can spread diseases. In the infographic, "Owning Exotic Pets," the author illustrates through a statistical fact that an estimated 90% of reptiles carry salmonella in their feces (Toro1). This explains how the owners have a high chance of catching the disease because when they clean the feces, they can easily catch salmonella, causing them to become sick. To add, this can cause an outbreak in which many will die and become sick, then it will affect the community and their health. All in all, people should not have exotic pets because the diseases could infect people.

One reason why exotic animals should not be kept as pets is because the pets can be in danger if owners do not give them proper care. Furthermore, the author of the editorial states, "Terry Thompson opened the cages on his Zanesville farm, springing dozens of lions, tigers, bears and other wild creatures before killing himself. In Zanesville, it was the animals themselves, including 18 rare Bengal tigers, who became innocent victims," (224). This shows exotic animals can also be killed if the act of humans are not responsible. Exotic pets and the owner could die if the owner provoked the animal, made them angry, and made them extinct by killing the last one. Owners can be in danger and the exotic pets too. This reveals that owners that provoke the animals make them mad because owners were not responsible which causes the animal to be aggressive and hostile. Additionally, if an exotic animal owner does not know how to take care of the wild pet or meet the pets needs, then it can cause life threatening situations to innocent lives. All in all, owning an exotics is a huge responsibility and very dangerous.

In conclusion, exotic animals should be prohibited because they are dangerous creatures. Exotic animals should not be legal because they cause death, transmit diseases, and endanger animals. In the future, society should highly consider banning exotic animals as pets to reduce harm to innocent citizens and animals.

Krypton Ion Thruster

by Mingfeng L.

In the future, there will be a group of satellites on our planet in ultra-close orbit. They are called the star link, these satellites are using a krypton ion thruster for their engine.

Star link's thruster is using a krypton ion thruster, this thruster compares to chemical reaction thrusters, the biggest difference is the propulsion. Chemical reaction thrusters is more likely using gas injection produced in a state similar to the deflagration of the fuel to making a big propulsion to get away from the earth, since the chemical reaction thruster can produce a huge energy in the moment to get bigger propulsion to push the object, but if we talk about the efficiency, chemical reaction thruster is very low, it has two tons of fuel can be used to carrier a object out of the earth, let say that two tons of a rocket, in order to send tens of kilograms, hundreds of kilograms of cargo into space, it may a tons of the rocket is the propellant.

Krypton ion thruster is different, when things is being sent into the space, we don't have need a big propulsion, because space has not gravity, and air resistance, we can just using krypton ion thruster, krypton ion thruster it can provide a long period of energy, in a long time, it does not need propellant, so it is more light, and it can run for four or five years, five kilograms can be used to engineer to run about thousand hours, Krypton ion thruster is using a little propulsion to add and add together, and make the satellite to move about thousands mile.



Benefits of Robots

by Hison Z.

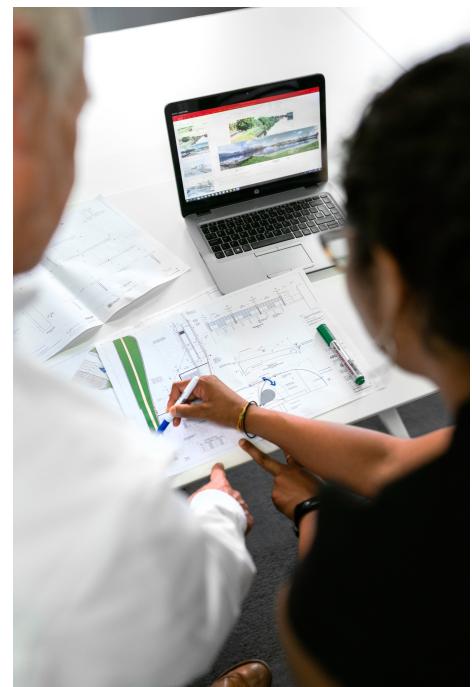
Having greater tech would be great but robots could help us way much more. It could be used in jobs such as restaurants. It could help because delivering food you don't need to accidentally spill anything because it is in a glass shield. Also it would be great for painting, because if the item is too tall they can't reach so the robot can paint it. It can also teach you to learn all kinds of stuff like math science and even languages. It can also play music and stories. So this is why robots would be great helping us



What is Civil Engineering?

by Joshua H.

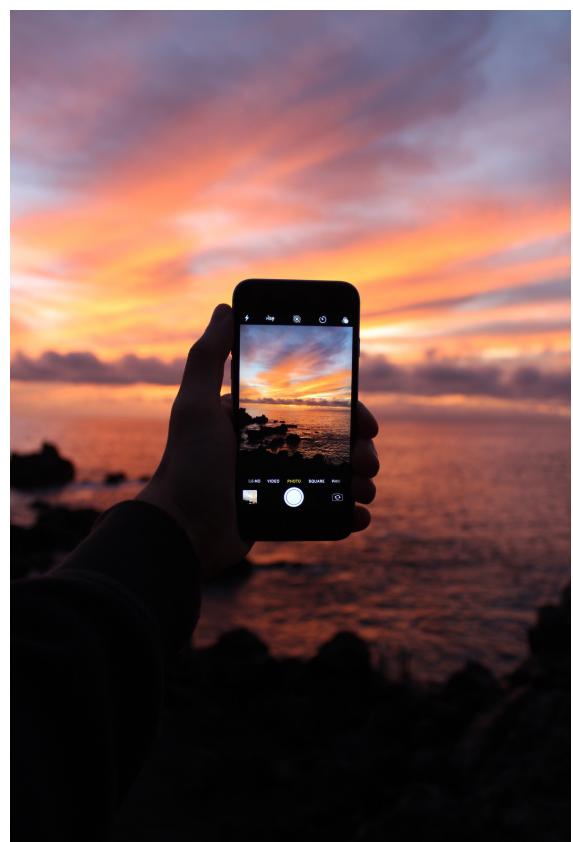
First of all, what is Civil Engineering? Civil Engineering is a professional engineering discipline that deals with the design, construction, and maintenance of the physical and naturally built environment. This job is very important because it shapes the world that we know today. Without this job, our world would be completely different and the environment that we also live in will be completely different. As citizens, we depend on civil engineering to maintain the balance of the natural environment. In addition, civil engineers are used to solve some of the world's most pressing problems such as climate change. Overall, the importance of civil engineering is very impactful to our lives.



The Glamour of iPhones

by Nathan C.

iPhones are a very small but a very useful piece of technology. Firstly, iPhones are small but it can still have a lot of stuff on it. It can handle many mobile games, and you can call people on it as well. Even if it is small, you can still get many many apps on it so it is still very useful because it can still handle many games, many apps, and it can have much more. Next, iPhones are small but they are useful because they are portable. You can take it everywhere for its small size. It can easily be put into your pocket.



Facts about Ecology

by Ocean Y.

Environment is a part of science concerning the spatial and fleeting examples of the circulation and plenitude of living beings, including the causes and results. Subjects of interest incorporate the biodiversity, conveyance, biomass, and populaces of living beings, just as participation and rivalry inside and between species. Biological systems are progressively collaborating frameworks of life forms, the networks they make up, and the non-living segments of their current circumstance. Biological system measures, like essential creation, pedogenesis, supplement cycling, and specialty development, direct the transition of energy and matter through a climate. These cycles are supported by living beings with explicit life history qualities. Environment has functional applications in protection science, wetland the executives, normal asset the board agroecology, agribusiness, ranger service, agroforestry, fisheries, city arranging metropolitan biology, local area wellbeing, financial aspects, essential and applied science, and human social communication human nature. It isn't treated as independent from people. Organic entities including people and assets make environments which, thus, keep up biophysical input instruments that moderate cycles following up on living biotic and non-living abiotic segments of the planet. Environments support life-supporting capacities and produce characteristic capital like biomass creation food, fuel, fiber, and medication, the guideline of environment, worldwide biogeochemical cycles, water filtration, soil arrangement, disintegration control, flood insurance, and numerous other normal highlights of logical, verifiable, monetary, or inborn worth.

The extent of biology contains a wide exhibit of collaborating levels of association spreading over miniature levels to planetary scale wonders. Environments, for instance, contain abiotic assets and cooperating living things. Environments are dynamic, they don't generally follow a straight successional way, however they are continually changing, once in a while quickly and now and again so gradually that it can require millennia for biological cycles to achieve certain successional phases of a woods. A biological system's region can change incredibly, from minuscule to tremendous. A solitary tree is unimportant to the arrangement of a timberland biological system, however fundamentally pertinent to organic entities living in and on it. A few ages of an aphid populace can exist over the life expectancy of a solitary leaf. Every one of those aphids, thus, support assorted bacterial networks. The idea of associations in environmental networks can't be clarified by knowing the subtleties of every species in detachment, in light of the fact that the rising example is neither uncovered nor anticipated until the biological system is concentrated as a coordinated entirety. Some natural standards, in any case, do show aggregate properties where the amount of the segments clarify the properties of the entire, for example, rates of birth of a populace being equivalent to the amount of individual births over an assigned time period.

Phone Call Benefits

by Samuel L..

Many people today text their parents, relatives, teachers, strangers, and friends using their mobile phones. It all started with an app, some games, and some meetings. They could be really helpful for safety and work.

We won't have to drive all the way to the person you're talking to if we use calls to reach friends and family. It is important for the government to interact with other countries all over the world. We may minimize slaughter by contacting from afar in this manner. Calls may also be used to ask for assistance, such as with homework, questions, or relationships. This could also help to prevent deaths in the event of an emergency by allowing us to contact relatives as quickly as possible.

Finally, while it can make it easier to reach people with only a few clicks and taps, it also makes it easier to avoid risky situations. Those things could come in handy when you really need them.



All About Volcanoes

by Ioifei L.

Volcanoes are big mountains, insides filled with magma, magma is lava but magma turns into lava once the magma goes out of the volcano. Volcanoes are formed when hot molten rock, ash and gases escape from an opening in the Earth's surface. The molten rock and ash becomes hard as they cool, forming the volcano shape. The largest kind of volcano is the shield volcano. There are 1,500 active volcanoes in the world. In fact, a dead volcano is one that stays dormant and when they die, they become an ex-volcano. All in all, these are some facts about volcanoes.



Water 101

by Xiulin G.

Today let's talk about water. Water is everywhere on the earth. Water is everywhere because in lakes and oceans there is water. Water is easy to know about. Water is tasteless but water is healthy. Water is healthy because it contains minerals and other healthy things. Water is made of hydrogen and oxygen. Water is needed for plants and animals, also humans because they all need water to survive. When you freeze water they become ice. When you heat water they become gas. Water is also colorless.



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