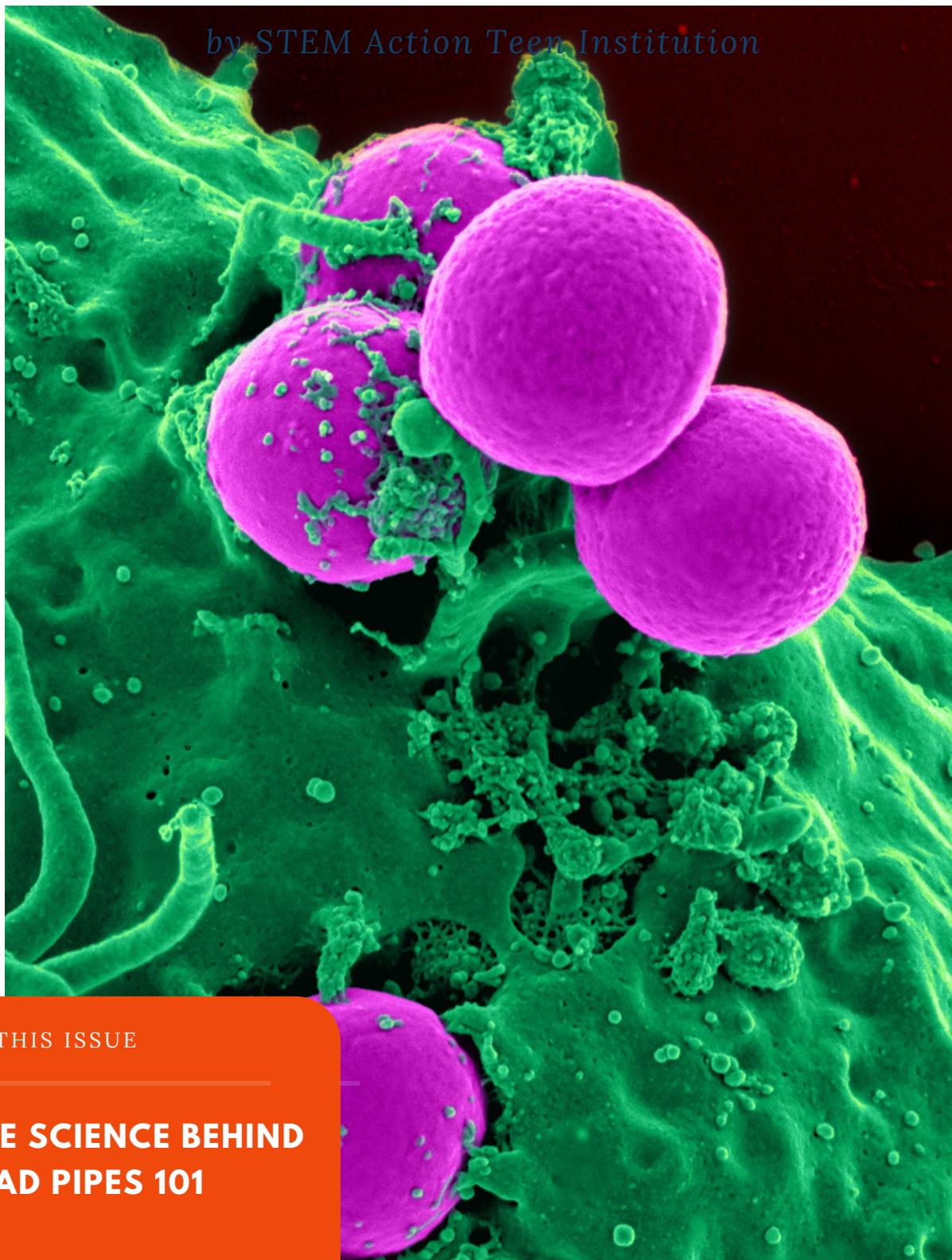


SEEKING SCIENCE

by STEM Action Teen Institution



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LEAD PIPES 101**

**ELON MUSK &
STARLINK**

EXOPLANETS

AND MORE...

A MONTHLY NEWSLETTER
ON ALL THINGS STEM

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Exoplanets!

by Shuoxin Xie.

Who needs to flee to Canada when there are 24 planets more suitable for life than planet Earth? Astronomers have discovered two dozen planets, all more than 100 light-years away, that are perfectly capable of sustaining human life as 2020 continues to rear its ugly head in our end of space. These "super-habitable" worlds are older, bigger, warmer and have more moisture than Earth, according to the study, led by Washington State University geobiologist Dirk Schulze-Makuch



There's no confirmations that life exists on these planets, but the study used those characteristics to search for super-habitable potentials across 4,500 exoplanets, simply defined as planets that orbit stars outside of our own solar system. These faraway worlds could become subjects of future study, thanks to upcoming advanced telescopes, including NASA's James Webb Space telescope. Stronger gravity to sustain an atmosphere and hold down moisture for a longer period of time.

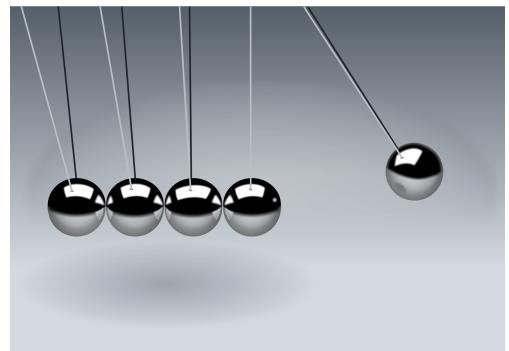
"With the next space telescopes coming up, we will get more information, so it is important to select some targets," said Schulze-Makuch. "We have to focus on certain planets that have the most promising conditions for complex life. However, we have to be careful to not get stuck looking for a second Earth, because there could be planets that might be more suitable for life than ours." Researchers identified these planets based on a list of specific criteria. Among them, the planets' presence in the host star's goldilocks zone, or the habitable orbit around a star where liquid water can exist thanks tp the right temperature. Not only does the right surface temperature matter for the existence of water, but a surface temperature above 41 degrees warmer than that of Earth would be more suitable for life, thanks to the combination of a higher temperatures and the presence of moisture. Also, when it comes to planets, bigger is better. A planet that's even 10% larger than Earth means it has more habitable land. Plus, one that has even 1.5 times our planet's mass means it can keep its interior heating longer through radioactive decay.

Physical Science and Technology

by Steve L.

A lot of inventions are famous because of how useful. I will tell you three inventions that people use every single day. To start, a light bulb is an invention people use everyday to see clearly in the dark. People also use it when it's night time. For example, a light bulb is an invention that most people have in their home. Humphry Davy invented it in 1802 and it became popular in 1880. Next, airplants are an invention that people use to travel to other countries. People can also use it to meet their family if they are from a different country.

For instance, airplanes are a famous invention and it is used to travel around the earth. It was invented by The Wright Brothers and The Wright Brothers want to make airplanes because The Wright Brothers' dream is to make a flying machine. Finally the automobile is an invention that everyone uses to go to other places and it's famous because it can travel to other places.



it's famous because it can travel to other places. For example, the automobile is an invention that people use to get to other places and a lot of people use it. Carl Benz is the one who invented the automobile in 1885. In conclusion, many inventions are famous and are very useful. Have you wondered what famous holidays are and how do people celebrate it? I'll tell you what famous holidays are and how do people celebrate it?

I'll tell you what famous holidays and how people celebrate them. First of all, Christmas is a famous holiday and a lot of people like it. People like it because they get presents on Christmas. For example, Christmas is a holiday that people celebrate by decorating their house, playing with their friends, and People also get presents. I like to ask my friend what they got for Christmas. Next, Halloween is another holiday that a lot of people like because people like going out a trick-or-treating.

For example, Halloween is a holiday where people dress up and go trick-or-treating and watch spooky movies. I love dressing up as my favorite character during Halloween. Finally, Thanksgiving is a famous holiday that people and their family gather and say thank you to their family and why.

For instance, Thanksgiving is a holiday that people celebrate by gathering with their family and their friends and have a delicious feast. I love going out and play with my friend. In conclusion, these holidays are pretty famous holidays that you should celebrate with your family and your friends.

Space Tourism

by Angelina C.

Many of us have thought about going to the moon as a trip, but can we afford the cost of going to the moon? Yusaku Maezawa spent billions just to have a trip around the Earth and the moon.

He is going to bring 6-8 artists and see after going to the moon what inspiration they can make to the world. The project is called #dearmoon, and it will take place around 2023. We will be able to see the first group of people going to the moon for a tour. Going to space is a very expensive trip, and it also takes a lot of time to work on just 1 spaceship for passengers. The project may take 5-10 billion dollars for the development and the ship. The trip will be 6 days long, but it takes around 5 years for it to be finished.

Unfortunately, as Covid-19 spread across the world, it will be harder to finish it on time. So, we will have to wait longer for us to witness the group of people going around the moon.



Lead Pipes 101

by Ben L.

Lead pipes can cause problems. Lead is poisonous. In my opinion, lead pipes should be removed. First, lead is a poisonous metal that is poisonous to drink or eat. Lead poisoning was found by Clair Cameron Patterson. Lead pipes are underground carrying water underground. Second, many people drink from the pipes and get poisoned. Many people have headaches and other symptoms. Last, drinking it would affect the future and get problems. People get poisoned easier because they are older. Lead pipes can cause severe problems. Lead is poisonous.



As you can see, lead pipes should be removed. Many people have created many purifiers for water. lead NSF/ANSI standard 53 for lead removal and NSF/ANSI standard 42 for particulate removal. If you have a lead service line, use a filter for all water you use for drinking or cooking. You can flush your water to reduce the lead levels. Cooking the water will turn it into steam and release the clean water. Water plants without lead can purify it too.

The Importance of Science

by Ocean Y.

Science shows several ideas along with significant themes so that I could test them independently and without any bias to arrive at a solid conclusion. For this purpose exchange of data and materials is necessary. I am able to generate real and tangible facts supported by reliable evidence. Work of scientists is based on theoretical science.



It means, in theoretical science, there is only a sign, just a hint on which discoveries could be made, facts could be found. While studying science I am always working to determine truth, based on my perceptions, judgment, observation, experience, and knowledge collected through several means. It is pertinent to mention that science, in fact, has practical limits, however it is beneficial in almost every area of human beings. Through science, I have the opportunity to test and verify ideas.

I feel myself as an upcoming scientist because of my probing aptitude, always ready to help people by producing useful things which great scientists have been able to accomplish like producing products such as cars, computers, airplanes, satellites, and etc.

Starlink and Elon Musk

by Mingfeng L.

A long time ago people were relying on commutation to spreading news or messages, since now, people were relying this method, but in the different way, authors posted onto the internet, and let people to read online, even in the thousand miles apart, on the other side of the world, they can see the article, just in a few second, in a touch with fingertip.

The way that the internet works is to connect to another computer, the bigger computer is called servers. People also invented a small box, the box that we need in everyday life, phone, they all need to connect to the internet, but that question is, what can connect them together, with wifi? with satellites? with a special line?, the answer of all of them are yes, but there are some problem, wifi's range too small, it can only cover a small area, with satellites, it is too slow and it is too expensive, and finally, the special line, it is called optical fiber, optical fiber is a line that can transfer light, it reflect the light from edge to edge of the line to travel. One optical fiber is not expensive, it is about ten dollars, but in order to get to so far, across the world, we need to put thousand of optical fiber, and million of miles to get across the oceans, it is a big project, and expensive, also, we need to maintenance the optical fiber, so, some of the city is still not have internet today, because they are small, less people, and out of the way, taking an optical fiber is not realistic, the company can not get pay back for taking the optical fiber their, they will loss their money.

In 2015, space x they came up with a concept.

They said that many special satellites with antennas should be put into space, and then signals can be received in many places on the earth, and they can be connected to the Internet in remote areas, which is also very suitable Those who go to work in the field, they can use Space X satellite to surf the Internet in remote places, such as deserts. These satellites are working on the low orbit on the earth, because they are working on the low orbit on the earth, they are more faster than the normal satellites, they will not be faster than 5g, nor will they replace 5g, they will cover the signal in a lot of places. Space x changed the plan, they are originally 4000 satellites to 12,000 satellites to inorder to get the entire earth to be covered, it only expected to require approximately ten billion to be launch and lift off to the sky, this same amount of money can not be used to cover the entire united state with optical fiber, so, satellites is the most convenient way to replace optical fiber.



Impact of Biological Sciences

by Joshua H.

My article for this months seeking science article will be about biology and the impact it has on the world today. Biology is the study of living organisms. Without biology, we wouldn't know anything about the cells of living organisms and the natural processes they have to go through to survive life. Biology has a huge impact on human lives. Knowing about biology helps us make our daily life choices. In addition, biology is used worldwide to improve food supply, curing diseases such as the coronavirus, and preserving our environment.

Without biology, the world would be very different. People would not know why they are sick if they are. Biology helps inform us on what happens inside of our body and the natural processes that it has to go through to survive. We wouldn't know how living organisms reproduce without biology and we would be completely oblivious about living organisms without biology. This is why biology is very important and why it has such a big impact on living organisms.



Is Magic Real?

by Darren W.

Have you ever wondered how the magician could perform magic? Do you think that there is such a thing like magic? Do you ever think that there is even magic? Today I will be telling you what I think about magic whether it's real or doesn't exist.

First of all, I think that magic is not so real because when the magician performs magic tricks some people think that magic is real but I don't think magic is real at all. The magician just tricks the audience that he is doing real magic, but after the magician's done performing, they reveal the secret. When they do that, it means that the magic is not real is just a certain way of doing something. Magicians just do it fast so that the audience can't tell whether it is magic or not. Next, sometimes there are such things as magic because when the alchemists known as scientists tried to test out magic potions they actually found out a way to turn dull pennies into golden shiny pennies. You first need to get 6 dull pennies and get a container and in the container you have to dump in salt and vinegar. Then, you have to dip the dull penny in salt and vinegar in order to turn it shiny. Some alchemists known as scientists think that when you dip the dull penny into salt and vinegar, you're not actually turning it golden shiny instead, you're just adding a shiny layer to the dull penny.

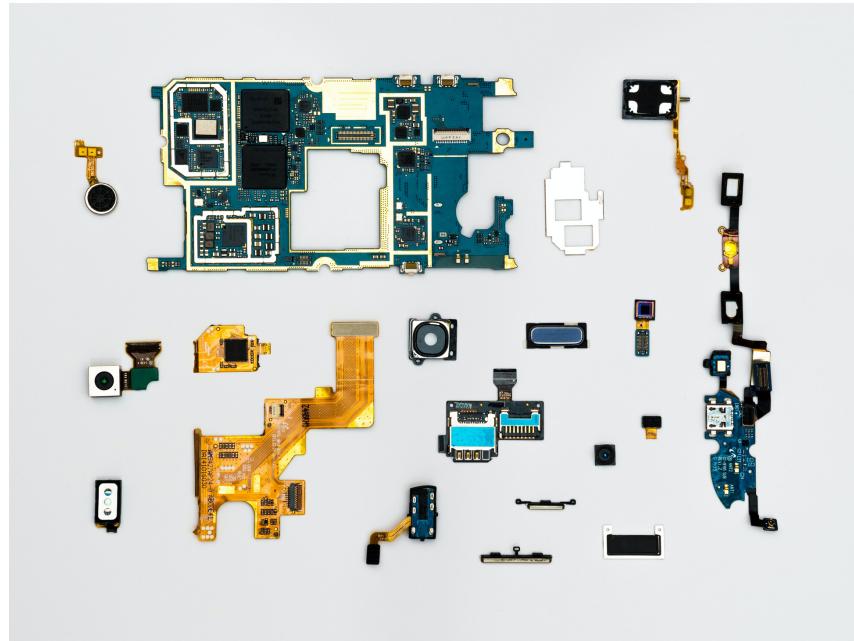


Afterwards don't really think that there is such a thing as magic because not like harry potter, you can actually sit on a flying broomstick you would need to fly in a jetpack to fly high into the air. Also it would not be real if one person just fly regularly, they need to use some type of device or other kind of fly equipment in order to fly up into the air.

In Conclusion, I don't think that it is possible to do magic because when we do magic tricks we're actually just doing something and tricking the audience like we are doing real magic. So, that is the reason why I think magic is not really real.

Technology Trends and Evolution

by Iofei 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.

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