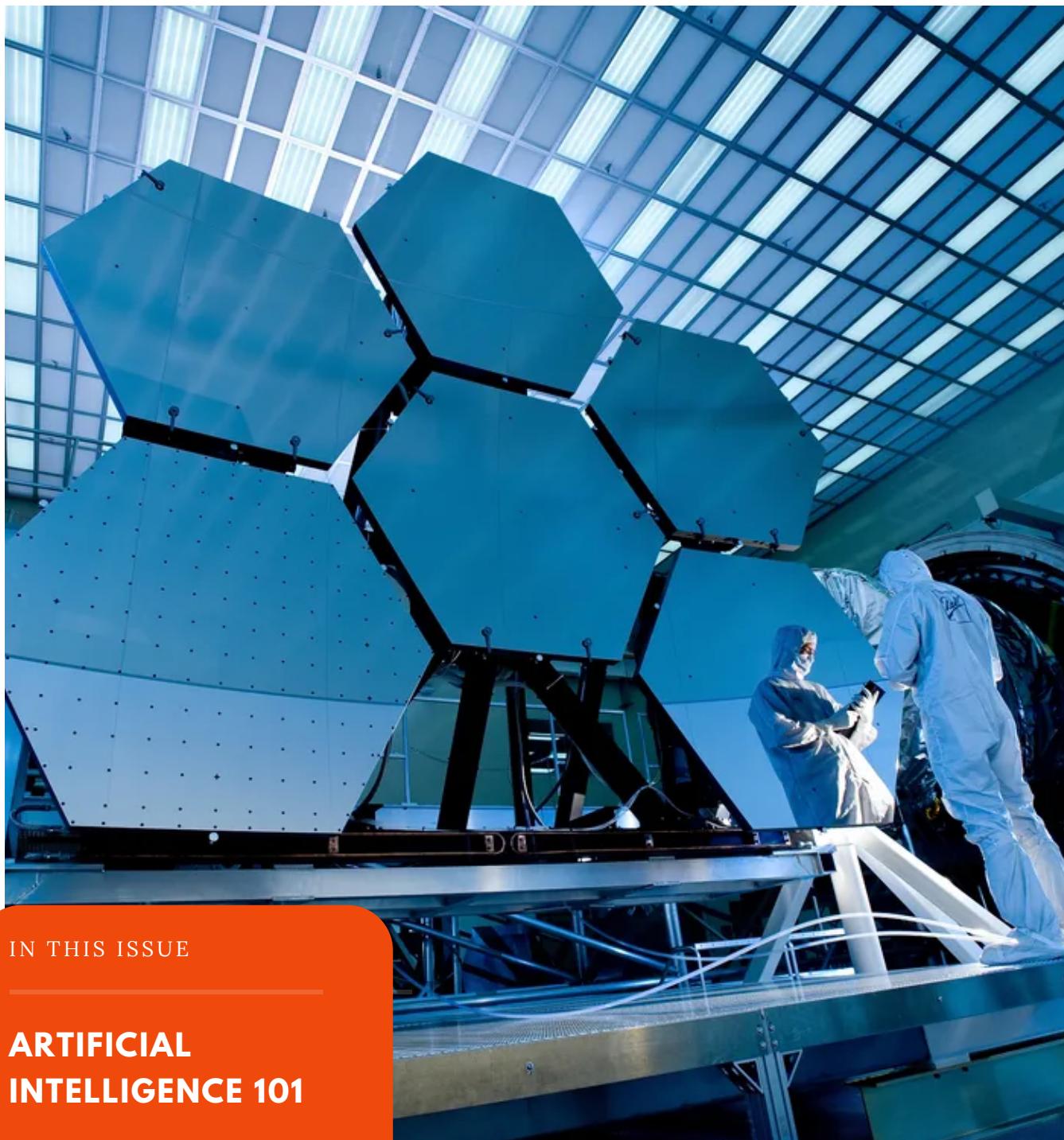


# SEEKING SCIENCE

by STEM Action Teen Institution



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**ARTIFICIAL  
INTELLIGENCE 101**

**ELON MUSK &  
NEURALINK**

**NUCLEAR ENERGY  
BASICS** AND MORE...

A MONTHLY NEWSLETTER  
ON ALL THINGS STEM

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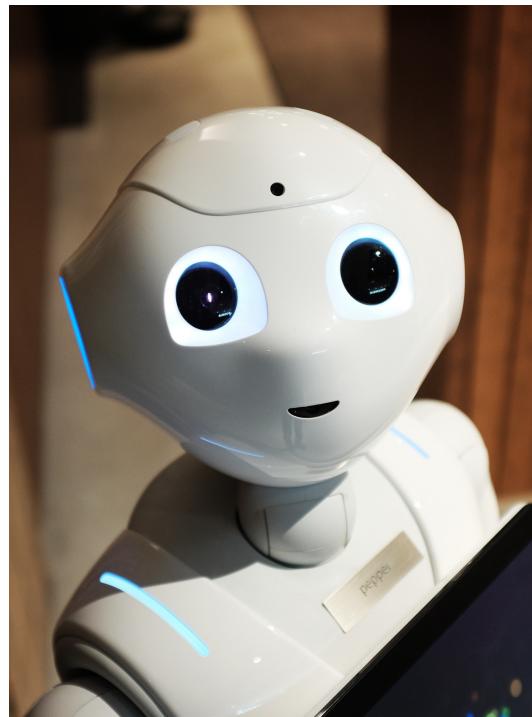


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# The Power of AI

by Frankie L.

In the modern day, we are around technology, applications of artificial intelligence(AI). For example, phones, watches, air conditioners, traffic lights, refrigerators, etc. are things that are around our life all have “smart” capabilities, and we need that, otherwise we will be set back to prehistoric times. Humans are smart, but computers can do more calculations than the human brain. The average computer is getting faster and faster. Compared to fifteen years ago, the pace at which technology is changing right now is enormous.



The difference between normal machines and artificial intelligence, is that AI is more involved in intelligence, especially between a normal robot and an AI robot. The difference is that a bot without AI is like a person talking to a box. It is going to say exactly what the programmer writes and says. Everything needs to be programmed, otherwise the robot can't answer and it takes a lot of time for the programmer to write it. The AI robot is completely different because it can learn like a human, using and gathering data over time.



Artificial intelligence is famous, it is used in movies involving robots. Robots can be incredibly smart, and they assist people in tasks, and they can even fall in love with humans. Although this is a movie and not real, artificial intelligence is still used extensively in real life by humans, but they are more used in business. Now businesses do processes called in an automated fashion using AI, such as car companies. Car companies are using robots to make vehicles. It is difficult and almost impossible for humans to hand make a car. In service companies, like UPS, Amazon, FedEx, and USPS, they are all using AI to help them deliver packages to people. Everyday, there are about a million things that need to be delivered, some of them are in the same country, while some of them are across the world. For humans, it is too much information to determine what they want to be delivered. In this case, artificial intelligence is important, as it can automatically separate them by what country, which state, and what city they are in, and all we need to do is put it into the track and done.

AlphaGo, is an artificial intelligence developed by a team by Google's Deepmind Company Damis Hassabis, explains its main working principle "Deep learning", which is the first artificial intelligence robot that defeated a human professional Go player and the first world champion of GO. In 2016 March, Alpha Go won 4:1 with Shi Shi Li, Because the AI needed experience in order to learn, it lost 1 round to Shi Shi Li. At the end of 2016, this program in China, named "master", won 6 consecutive games. In 2017 May, Alpha Go won 3:0 with Jing Ke. Jing Ke is the top ranked human to play Go, so later the match, Deepmind has known AlphaGO has defeated all humans

AI is important in the future and it is getting stronger and stronger. The stronger they are, the more things they can do, and the more impact it has on our lives.

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## STEM in a Nutshell

by Darren W

The S in STEM means science and the T means technology and E means engineer and M means mathematics.

First, science has to do with experiment and nature, for example scientists study science because they are called scientists. Scientists have to be very smart and like to take notes they also do a lot of research If they need to.

Then, technology has to do with computer science and coding, technologists study technology, which is why they're called technologists. If you want to be a technologist you have to be very good at computer games and coding and computer science.

Afterwards, engineering has to do with lego and EV3 and robotics. To be a good engineer you have to be good at programming and building legos.

Finally, mathematics has to do with the subject math because in order to be very good at math your brain has to think very quickly. What I mean by that is your brain is very smart.

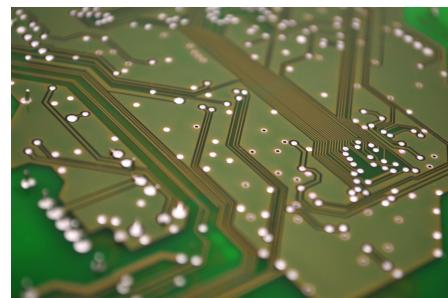


# Artificial Intelligence 101

by Joshua H.

AI, also known as Artificial Intelligence, holds a significant position in the world right now. It has completely advanced everything that we used to know. For example, ever since the coronavirus, schools have been shut down, and the only way of still getting your education daily is through technology. Nowadays, people use google meet or zoom to provide kids the education that they would usually get in class. Not only is Artificial Intelligence used to supply students with the knowledge, but it is also used to help find a cure for the coronavirus. You can see that technology is fundamental in society as we know it today.

To begin with, what is Artificial Intelligence? Artificial Intelligence is intelligence that is developed from computers. An example of Artificial Intelligence is robots. They can perform the same tasks as humans like visual reception, speech recognition, and decision making. These are all tasks that humans can perform.



I find Artificial Intelligence very interesting. The fact that someone can replicate a human being's personality and thoughts is very intriguing. Artificial Intelligence is supposed to replicate humans but AI may not act exactly like humans. They don't always express the same emotions as humans. Robots won't actually have feelings with humans. This is the only part of robots that can't be replicated by humans for now.

Artificial Intelligence is used to help provide education to everyone. Google Meet and Zoom meetings allow kids to come in contact with other people so they won't feel lonely. Not only does technology help educate kids but it also helps them connect with other people. This improves the health of kids and makes them feel safe and comfortable in their environment.

AI/Technology is playing a huge role in the development of the vaccine for coronavirus. For example, the coronavirus is used to find molecules capable of treating coronavirus. In addition, AI can be very accurate when doing research. This is one of the benefits of AI. Humans can easily make mistakes but AI is programmed to be mistake-proof and are far less likely to make errors when compared to people. This makes it less worrying of mistakes and false claims.

In conclusion, AI has very interesting purposes and an interesting background. As of right now, AI is used to provide education to students around the world and is used to help find a cure for coronavirus. AI's are supposed to replicate a human being that is more efficient and accurate but doesn't express emotions. Technology/AI hold a very vital purpose in the world right now.

# Importance of Science & Technology

by Steve L.

STEM is an acronym for the fields of science, technology, engineering and math. STEM is very important because it stands for science, technology, engineering, and mathematics. STEM is important because it pervades every part of our lives.

Science is everywhere in the world around us.

Technology is continuously expanding into every aspect of our lives. Engineering involves the basic designs of roads and bridges, but also tackles the challenges of changing global weather and environmentally-friendly changes to our home. Mathematics is in every occupation, and also every activity we do in our lives. By exposing students to STEM and giving them opportunities to explore STEM-related concepts, they will develop a passion for it and hopefully pursue a job in a STEM field. As you can see, STEM is very important throughout life.



## The Impact of STEM

by Ben L.

In my opinion, S.T.E.M is important. Firstly, STEM can be separated into science, technology, engineering, and mathematics. STEM means science, technology, engineering, and mathematics. Secondly, STEM has many uses in both biology and technology. Third, S stands for science means phenomenon or other chemistry. Fourth, T stands for technology means devices that run or nonliving things that move. Fifth, E stands for engineering means creation or some part of technology. Sixth, M stands for mathematics means math, complicated math equations, and the study of mathematical computation.

```

3 require File.expand_path('../config/environment', __FILE__)
4 # Prevent database truncation if the schema has changed
5 abort("The Rails environment is running in production mode!")
6 require 'spec_helper'
7 require 'rspec/rails'
8
9 require 'capybara/rspec'
10 require 'capybara/rails'
11
12 Capybara.javascript_driver = :webkit
13 Category.delete_all; Category.create!
14 Shoulda::Matchers.configure do |config|
15   config.integrate do |with|
16     with.test_framework :rspec
17     with.library :rails
18   end
19 end
20
21 # Add additional requires below this line if you need them
22
23 # Requires supporting files within the same directory as this file if you need them
24 # spec/support/ and its subdirectories
25 # run as spec files by default. You can
26 # in _spec.rb will both be required
27 # run twice. It is recommended that you
28 # end with _spec.rb. You can
29 # reconfigure this behavior with
30 # configuration.inclusion_order = :last
31
32 # Configuration for the test suite
33 #
```

Now, each of these definitions for STEM are added all of those together, which simplifies its use in language. Lastly, STEM has had many uses for a long time since the ages, and represents the pinnacle of human innovation. It is science, technology, engineering, and mathematics. It is important. Conclusively, I think it is better because now it is an easily identifiable acronym and has a greater importance in today's society.

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## Elon Musk & the Pig Neuralink Brain Implant

by JunHao C.

Elon Musk, the CEO of SpaceX and Tesla, has made another innovation with his AI-startup Neuralink. Neuralink has created a new brain-computer linking technology. The device is surgically implanted into the skull of a pig named Gertrude.



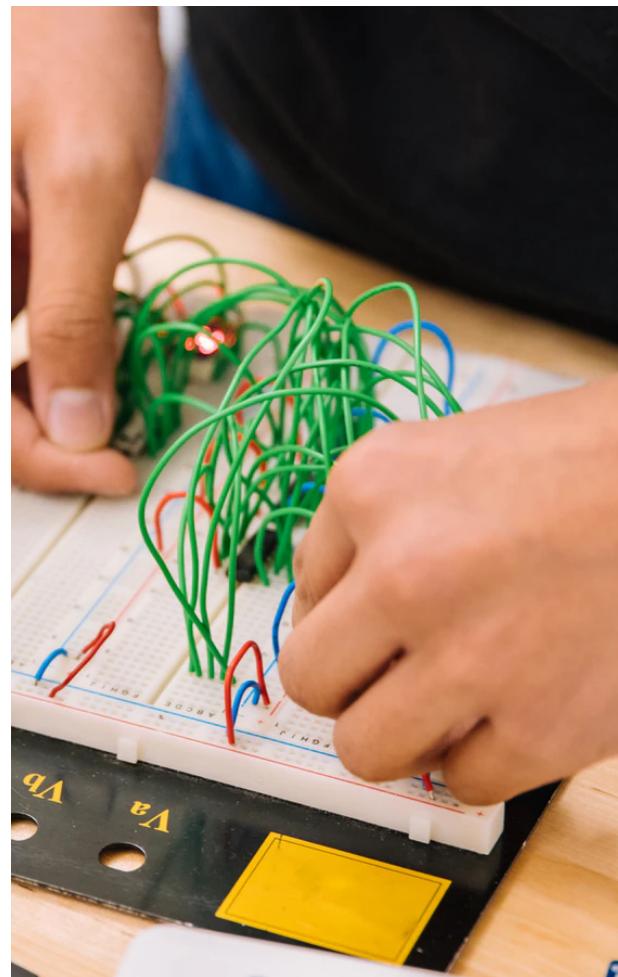
The link is wireless and is emitted from the Neurallink computing device. This wireless computing device shows the pig's brain activity, and the technology demonstrates Musk's ambitions for biotechnology. The US Food and Drug Administration in July granted approval for "breakthrough device" testing. Recently, Musk showed a second-generation implant that's more compact and fits into a small cavity hollowed out of the skull. This implant has tiny electrode "threads" that penetrate the outer layer of the brain and detect electrical impulses from nerve cells. These electrical impulses that the nerve cells produce show that the brain is at work. This is in line with Neuralink's longer-term plans, in which threads are designed to communicate back with signals that they generate themselves. As Musk said, it's "like a Fitbit in your skull with tiny wires".

# STEM Job Prospects & Outlook

by Ocean Y.

STEM means Science, technology, engineering, and mathematics. Some facts about STEM is STEM workers enjoy a pay advantage compared with non-STEM workers with similar levels of education. While STEM workers tend to be highly educated, roughly a third have not completed a bachelor's or higher level degree. About half of workers with college training in a STEM field are working in a non-STEM job. STEM training in college is associated with higher earnings, whether working in a STEM occupation or not. The share of women varies widely across STEM job types. Women have made significant gains in life and physical sciences, but in other areas their shares have been stable and in computer jobs it has declined. STEM is important because it pervades every part of our lives.

Science is everywhere in the world around us. Technology is continuously expanding into every aspect of our lives. If STEM education is not improved, the United States will continue to fall in world ranking with math and science scores and will not be able to maintain its global position. STEM education in school is important to spark an interest in pursuing a STEM career in students. Programs outside of school can help children to see that STEM is more than a class to finish. Having activities that show real life implications of STEM can pull together the ideas presented in school and help to show how they benefit our society and even our world as a whole. Children can see that what they are learning now is pertinent to their future and the future of the whole world, creating an interest often lacking when learning new concepts that do not seem to carry real world application.



# Exoplanets Discovered with NASA's Roman Space Telescope

by Ms. Jenny

NASA's Nancy Grace Roman Space Telescope is a powerful machine that was used by scientists to reveal exoplanets - rogue planets that do not orbit around a central star. They are freely floating bodies that drift through our galaxy. The purpose of studying these rogue planets is that it will help us understand more about how planetary systems form, evolve, and break apart. Astronomers first discovered exoplanets in the 1990s, where humans went from knowing only of the solar system to learning about the planets that exceed the billion of stars located in our galaxy.

The way that the Roman Space Telescope will find rogue planets is through a process called microlensing survey. This process involved gravitational lensing, which is an observational effect that occurs because the presence of mass warps the fabric of space-time. This effect is particularly enhanced around very massive objects, like black holes and entire galaxies. Even though exoplanets are nowhere close to black holes and galaxies in mass, they still cause a detectable degree of warping, and this is known as microlensing.



The Nancy Grace Roman Space Telescope is managed at Goddard and NASA's Jet Propulsion Laboratory at Caltech.

## Nuclear Energy Basics

by Mingdong

Nuclear energy is highly advanced and has many Pros and Cons. Also, the way people use a nuclear power plant to make energy is very strange and complex to me. I wouldn't have guessed it correctly without my research.

Every atom has energy trapped in its nucleus but the trick is finding a safe way of getting it out. A process called nuclear fission splits the nuclei of atoms and releases energy. When it comes to nuclear fission not just any type of atom will do. Nuclear power plants usually use an element called uranium as fuel because its nucleus can be split easily. Then you put uranium into some steel rods. These rods are put in tanks of water inside the nuclear reactor. Uranium atoms capture free floating neutrons and split into lighter elements and more neutrons. This creates a controlled chain of reaction and generates a lot of heat which turns the water around it into steam. The steam turns the turbines of generators to produce electricity.



Nuclear energy sounds like an awesome alternative to fossil fuels that are quickly run out. However nuclear energy produces nuclear waste that is highly radioactive and can stay around for thousands of years. This stuff is bad for almost all living things and plants. It's also very hard and expensive to get rid of it. There are a lot of things to learn about in the future to improve nuclear energy.



## All About STEM

by Shuoxin X.

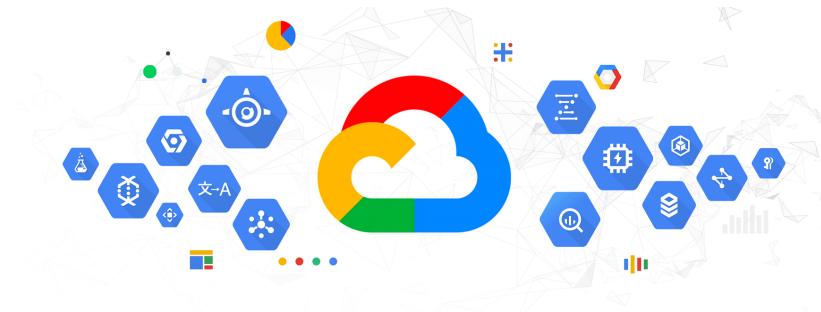
Science, Technology, Engineering, and Mathematics are commonly known as STEM. STEM is a great way to learn. STEM can teach you so many different things like math, engineering, and computer science it is so much more fun to learn from STEM than learning in school. In my opinion STEM is the best way to learn.

You actually learn a lot of things in STEM unlike school. STEM is super fun to learn from and it is a really great source for struggling students at school. STEM is great for students that struggle in school and students will really enjoy how STEM teaches.

STEM will boost struggling students' grades. STEM will teach ahead of their grade so students will know what is coming up and will stay ahead of the school.

# Google Cloud & Amwell Collaborate to Increase Virtual Care Access

by Mr. Lawrence



Google Cloud, the third largest cloud provider on the market, has teamed up with telehealth titan Amwell to enhance global telehealth platforms. As part of this collaboration, Amwell will use Google Cloud to enhance its services and features to improve its platforms. Google Cloud will invest \$100 million into Amwell to evolve and scale its portfolio to serve the needs of providers, insurers, and patients in current and new markets. Google Cloud offers enhanced capabilities in artificial intelligence and machine learning. In addition, they offer useful tools such as Google Meet, which will help increase collaboration between healthcare staff and their patients. Google also offers analytics tools which aid in the monitoring by providers and insurers. This piece of news is incredibly important, because telehealth nowadays is becoming increasingly important in helping to curb the spread of the pandemic while also providing healthcare to all.



## STEM in Our World

by Mary L.

STEM related to science is about the earth, air, and space, technology is about making useful things aka technology, engineering making roads and houses, and mathematics is about learning new math aka addition, subtraction division, multiplication, decimals, and etc.

Science can make a difference in the world by making new things such as liquids and making things grow or shrink, or doubling or subtracting. Technology can make life easier but might make humans more lazy. We might also not need cash but computer money. Doing math will also help with people's mind and will make them practice more and people will be happier with all these subjects and it will boost up their knowledge.

# How Chatbots Work

by Maddox L.

Alexa was brought forth at the end of 2014. It is a Bluetooth speaker with an array of microphones that could hear you in a modest distance. You can wake Alexa up by saying its name. Once it hears the wake word, the ring around the top will turn blue to indicate that Alexa is listening and waiting for commands. Here's how that works: whenever you ask Alexa a question or give her a command, Alexa records the audio and uploads it to Amazon's cloud servers. Those servers translate the audio into text, then figure out the best way for Alexa to answer. That info gets sent back to your Echo speaker, where Alexa translates the text back into a spoken response. All of this happens in about a second.

The name Alexa refers back to the library of Alexandra, which attempted to collect the world's knowledge. Amazon is doing the same thing. More or less, the service was named Alexa because it has the uncommon "X" sound. Since this service is voice-activated, Amazon wanted to choose a name that wouldn't get confused with other words that could accidentally awaken the device. Alexa starts recording only when it hears the wake word, so having a name that is uncommon is important so it wouldn't be recording all the time.



Another example of a chatbot is Siri. Siri is the personal assistant included on Apple iPhones. Siri is there to automate tasks and provide information, and Siri becomes more familiar with your tendencies the more you use it. It can inform you of the weather, remind you of an appointment, open an application, or even reply to all of your text messages. Upon receiving your request, Siri records your frequency and translates it into code. Siri then breaks down the code to identify particular patterns, phrases, and keywords. This data gets input into an algorithm that looks through thousands of combinations of sentences to determine what the inputted phrase means. Once Siri determines its request, it begins to assess what tasks need to be carried out, determining whether or not the information needed can be accessed from within the phone's data banks or from online servers. Siri is then able to craft complete sentences relevant to the type of question or command requested. These are just a few chatbots in the world that help us in our daily lives.

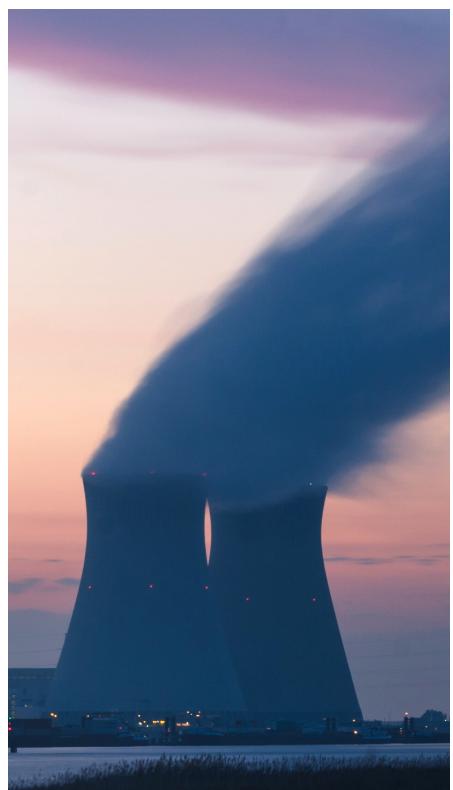
# Nuclear Power is the Best Choice

by Celina P.

Lots of people want to save energy. And there are many people who have done something about it. But here comes the question. How do you save energy? Sure, many kids have already learned how to save energy. But is the way they are learning the best way? Most schools teach about using windmills and solar panels. They talk about conserving. What IS conserving? Conserving is protecting something from harm's way. So we protect. Many claim nuclear energy is dangerous. But is it? They have proof of it being a dangerous and scary thing. But is it really as dangerous as they say? Nuclear power is important, that's why today in the following paragraphs, I will show you the truth behind the supposedly frightening nuclear power.

"All the waste in a year from a nuclear power plant can be stored under a desk." Ronald Reagan had once said. People say nuclear power has a lot, even too much nuclear and radioactive waste. But one of the most influential people thought about it differently. Ronald Reagan, our 40th president, as well as a union leader, stated that a nuclear power plant does not produce as much nuclear waste as they had always told us. Nuclear power is one of the cleanest sources of energy. Not only does it not use fossil fuels, but it also saves more than any other reusable energy. Nuclear power leaves nuclear wastes that contain radioactivity. Radiation is bad, as it kills cells or leaves them mutated, which could lead to cancerous diseases.

The world has already found ways to fix this problem. "Geological repositories", stated Harvard, are the best solution. They can store these nuclear waste underground, keeping the nuclear waste away from everything else. The U.S. found a site, Yucca Mountain, about 100 miles from Las Vegas, Nevada. They had been studying it for 40 years. The place had little rain, which meant it was less likely water would seep in and carry parts of nuclear waste along. The volcanic rock of the mountain is dense and has small pores, once more preventing water to leak in. Nuclear waste would be stored far above the mountain's water sources. All this leads to preventing nuclear waste from being spread. This way of storing could last 100,000 years! Nuclear waste only takes 1,000 years to neutralize and be safe to touch. In 2015, they concluded that Yucca Mountain satisfies almost all the requirements! The U.S. has found ways and so have Finland. This means nuclear waste is not an issue, as there are already solutions to fix this problem.



Nuclear power is also very reliable, because it has no conditions that it needs to fulfill. Solar panels require sunlight to generate electricity, windmills need wind, and hydroelectric power plants require water. But nuclear power plants don't require any of these. Nuclear power plants work under any condition, any weather, so nothing would stop it from producing electricity. This is extremely important because if one day, the water is calm, there isn't any wind and there isn't any sun, then what would you do? You wouldn't have enough electricity to provide for the whole city, because no electricity would be generated. That's why nuclear power plants are important. Though it might produce some nuclear waste and take up space, it is so much more sustainable and reliable than every single other way of reusable energy. According to energy.gov, they state, "Nuclear Has The Highest Capacity Factor. This basically means nuclear power plants are producing maximum power more than 93% of the time during the year. That's about 1.5 to 2 times more as natural gas and coal units, and 2.5 to 3.5 times more reliable than wind and solar plants." This proves that nuclear power is the most reliable and produces most power out of all the sustainable energy.



There are rumors that nuclear energy is too slow and too expensive to save the climate. But according to world-nuclear, it states, "Nuclear power plants are expensive to build but relatively cheap to run. In many places, nuclear energy is competitive with fossil fuels as a means of electricity generation. Waste disposal and decommissioning costs are usually fully included in the operating costs." The rumor is untrue. Nuclear power plants cost a lot of money. This fact is true, but the money you earn from conducting energy is a lot more than what it originally cost. Modern nuclear power plants can be used for at least 100 years. That's a lot of time. All this leads up to one thing. Nuclear power is not as dangerous as many people perceive it to be.

Other reusable energies also help us a lot, but nuclear power plants are the most beneficial choice. Not only does nuclear power not produce a lot of nuclear waste, but it also already has solutions for the problems you all point out. It is also more sustainable and more reliable. Nuclear power is the best solution for all of us. It is not expensive and it benefits us all. It works better than every other reusable energy. Nuclear power plants are the answer to solve climate change and save energy, thus I believe are the best solution.

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M-F 3:30pm-5:30pm writing M-F 3:30pm-5:30pm reading M-F 3:30pm-5:30pm Speak	M-F 3:30pm-5:30pm 中文拼音 M-F 3:30pm-5:30pm 中文阅读 M-F 3:30pm-5:30pm 中文写作
周一到周五 历史 Social Studies	周一到周五 科学 science
M-F 3:30pm-5:30pm 6th Grade US History M-F 3:30pm-5:30pm 7th Grade World History M-F 3:30pm-5:30pm 8th Grade Ancient History M-F 3:30pm-5:30pm 9th Grade 10th Grade 12th Grade History	M-F 3:30-5:30pm 6th Grade Science M-F 3:30-5:30pm 7th Grade Science M-F 3:30-5:30pm 8th Grade Science M-F 3:30-5:30pm 9th Grade 10th Grade 11th Grade 12th Grade Science
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初级 Basic level (M-F 3:30-5:30pm) 中级 Middle level (M-F 3:30-5:30pm) 高级 High level (M-F 3:30-5:30pm)	小学 Elementary school math 初中 Junior school math 高中 High school math
周一到周五 化学 Chemistry	
初中 Middle school Chemistry 高中 High school Chemistry	
喜乐河 After school	
周一到周五下午2:30PM-6:00PM; 暑假是全天, 早上9:00AM-5:30PM	
Grade Ancient History - 授督 6 年級古文明歷史 Grade World History - 授督 7 年級世界歷史 Grade US History - 授督 8 年級美國歷史 Grade Science - 授督 6 年級科學 Grade Science - 授督 7 年級科學 Grade Science - 授督 8 年級科學	
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轻松中学习知识 在愉快中建立根基 在欢声中自如运用 在笑语中环游世界 在喜乐中实现梦想	
《圣经》【箴2:10】智慧必入你心, 你的灵要以知识为美。	