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# MYTH UNDERSTANDINGS

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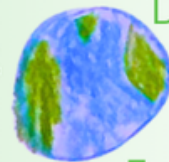
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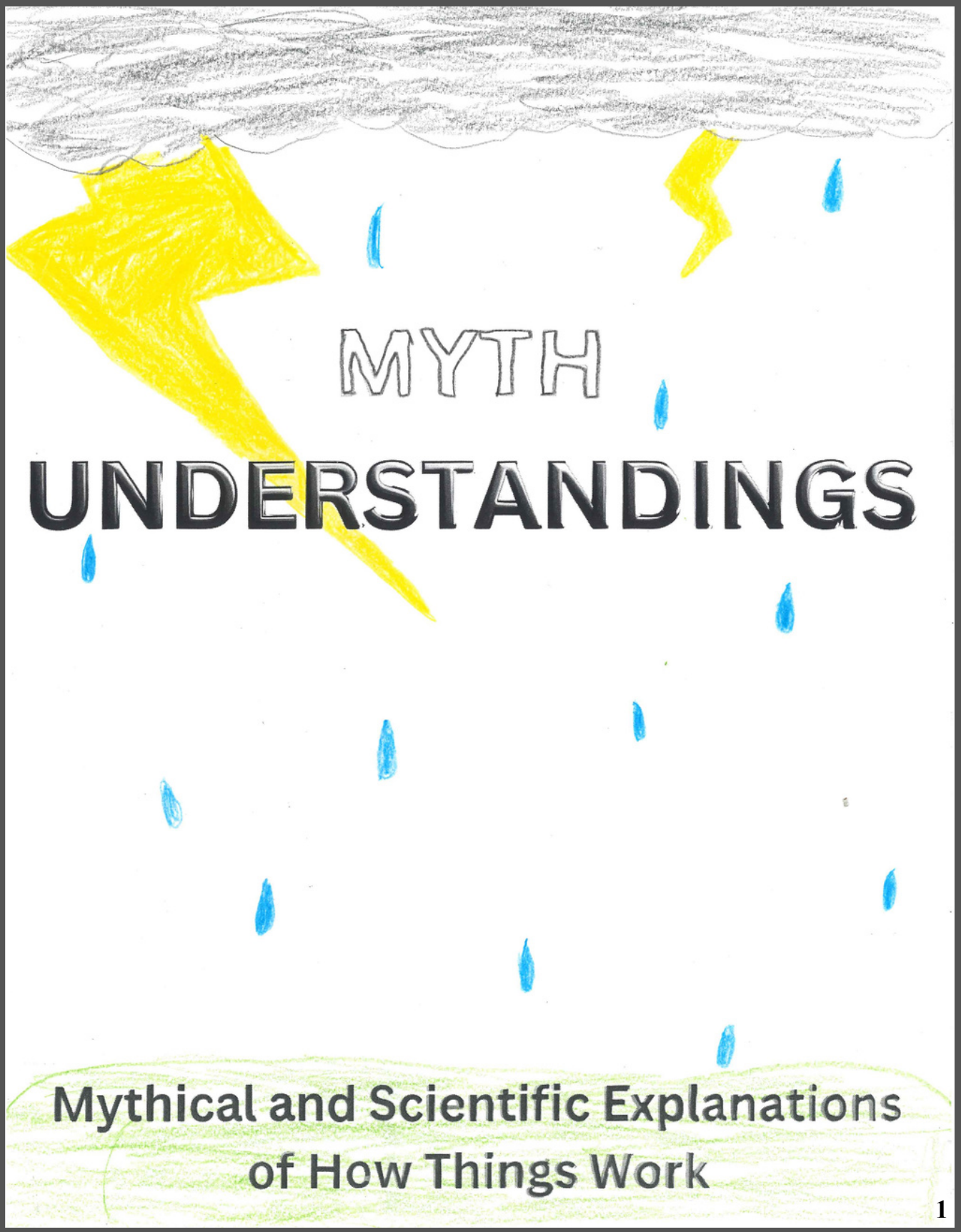


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MYTH

# UNDERSTANDINGS

Mythical and Scientific Explanations  
of How Things Work

# OUR EXPEDITION

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## **Mythunderstandings.**

It's a sort-of-word that can be interpreted multiple different ways.

**MYTH**understandings.

My**THUNDER**standings.

Myth**UNDERSTANDINGS**.

All those can be correct.

For this Sebago 6 fall expedition we chose to call it Mythunderstandings. The goal of Mythunderstandings was to figure out these questions: "How do we explain the unknown?" and "Whose story gets told?" The following book is a remembrance of our wonderful expedition. Even though we didn't do a ton of fieldwork, we did have many experts visit us throughout the course of the writing, drawing, and storytelling of this expedition. We went to the USM planetarium. We had experts like Dr. Nerdahl, Isabella Rotman, Emily Zack, David Grubb, and Micaela Blei visit us and teach us about different myths, storytelling, and drawing. Our Sebago 6 teachers helped us persevere and finish our drawings. We had a wonderful astronomy unit in science. We learned about the tales of Uranus, Gaia, Cronus, Zeus, The Titans, and many more in English Language Arts. We learned about the tales of Pangu, Omoteotl, Nane Sarma, Tlaloc, Huitzilopotchli, and many more in Social Studies. We worked on drawings and rough drafts over and over. And now, finally, after days of work, we present **THE MYTHUNDERSTANDINGS BOOK!!!**

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# How Did The Big Bang Work?

By [REDACTED]

## The Big Bang

The big bang was caused by an explosion of a singularity. The universe began around 13.7 billion years ago when the first stars and galaxies began to form. All the stuff in the universe was packed together in one dense point called a singularity. It was very hot at first, after things cooled down a bit the first stars and galaxies began to form. It's the idea that the universe started as a single point, then expanded and stretched to grow as big as it is now — and it's still stretching!



# How Was The Universe Created?

By [REDACTED]

## Scientific Explanation

The universe was created by the big bang. The ratios of hydrogen and helium match what you would find if the universe was once a big star. The universe began around 13.7 billion years ago. It formed the first star and galaxies. Because of the big bang the universe exists and we are able to live on earth.



## Chinese Myth

Pangu arrived when there was nothing in the universe. When he arrived, he was only an egg. Without the egg, the universe would have never been created.

The egg split apart and became the universe. Each half of the egg became the sun and the moon.

## Greek Myth

Prometheus and Epimetheus are the titans who got trusted by Eros, the God of love, to give special gifts and abilities to the beasts and birds. They had no gifts to give to man.

Prometheus made a man from clay. Prometheus gave man fire. Zeus was angry and punished Prometheus and then sent a female named Pandora who had poison sickness and death.



# How Does Creation Work?

By [REDACTED]

## Chinese Myth

Once, long before the time of the world, there was nothing but darkness. But then some of the endless darkness formed an egg. In this egg, a god named Pangu resided. Pangu did not like it in his egg, so he squirmed and kicked, but try as he might, he could not break free. But, he was getting tired, so he took a nap to regain strength and died in his sleep. After he had died, his body began to rot and form the world. His spine became a huge mountain range, while his eyes left his body and became the sun and the moon. His skin peeled off his body and became soil, as his four limbs became the pillars that would hold up the sky. Then his hair became the stars. So the next time you reject your broccoli because you think it is disgusting, think about how we're living on a giant corpse!



## Greek Myth

Once, there was nothing but Chaos. (yes, in Greek mythology Chaos was a being, an endless void of darkness.) For no reason in particular, chaos wanted to create something. So, she hardened parts of darkness into a spherical shape, whom she named Gea, the Earth. Gea soon became lonely and created Uranus, the sky. Gaea and Uranus were soon married and had 18 children together. These children were: The three Hecatonchiers, with 100 hands and 50 heads, the three Cyclopes, with one big eye in the middle of their forehead, and the twelve Titans, who resembled humans but were much larger. One of the Titans named Prometheus would eventually create humans out of mud but would become too generous to the early humans and would end up getting chained to a rock to get his liver pecked out every day by an eagle. But every night it would regenerate so he would constantly feel pain. These stories are the Greek myths for the creation of the world, the sky, and everything in between.



## Scientific Explanation

The big bang was caused by a singularity exploding about 13.7 billion years ago. This is known because of the amount of CMB (cosmic microwave background) in the sky. (CMB is a shockwave that occurs after an explosion). Another piece of evidence that this occurred is the observed expansion of space, as an explosion would expand. Lastly, the measured amount of elements, which measures out to about the amount of hydrogen and helium that there would be if our universe was once an extremely large star!



# How Does Creation Work?

By Adrian

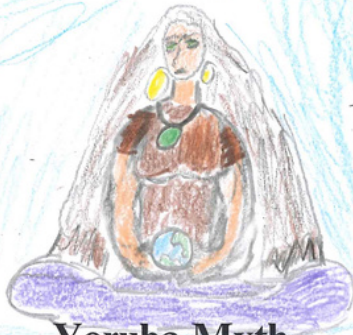
## Scientific Explanation

The big bang was caused by a singularity exploding in space. The explosion of the singularity happened 13.7 billion years ago. The singularity had an infinite density and was infinitely hot. Edwin Hubble figured out that the universe was expanding because he observed that other galaxies in space appeared red, and in space if something is going away from you it appears red. This supported the theory that the universe was expanding because of the big bang. The big bang created everything.



## Greek Myth

Gaea the Earth was in the dark. Nothing was living on her. She wanted to be in the light. She also wanted to have children. Uranus, the sky, rose up and they fell in love. This story explains how the universe was created.



## Yoruba Myth

Olodumare is a king orisha in the Yoruba tradition. He represents the universe. Olodumare sends another Orisha named Obatala to create the universe. He gives him a special pouch with sand, a hen, a pigeon to spread the sand, and a palm nut to help bring life. Obatala became tipsy from the palm wine and because of his mental state he mistakenly spilled the contents of the mystical pouch. The sand fell everywhere and the pigeon, trying to do its job, spread the sand out.

Worried that the world was incomplete, Olodumare then sends Oduduwa to save the universe creation process. Obatala was thankful and he decided to learn from his mistakes. He shaped humans out of clay and decided to watch over them as they entered their New World. With commitment, Olodumare shaped hills and valleys and deserts and streams and created the world for his people.



# How Was The Universe Created?

By

## Greek Myth

This is the story of how the gods made the first humans. Prometheus and his brother Epimetheus were trusted by Eros to give special gifts to all the creatures in the world. They also had to make man. Prometheus begged Zeus to help man but he refused. So one night Prometheus went to the golden chariot and stole fire for man. Man was able to do so many things. Man was mighty. One day Zeus looked down on Earth and saw smoke, he realized with much anger that it was from fire.

He chained Prometheus to a rock and had an eagle eat his liver every day, and every night it grew back. Zeus punished man by creating Pandora, the first woman, who carried a jar filled with sickness, death, and evil. That is how humans were made.

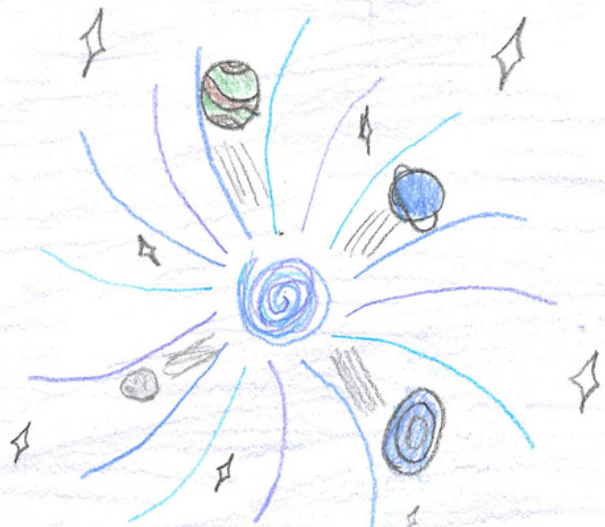


## Chinese Myth

There was once only sleek darkness and all of that darkness over 18,000 years became an egg and inside the egg was Pangu. After just feeling nothing for a while Pangu became aware that he was in the egg and said, "I'm like that guy in that one movie who gives wishes—I've got to get out of here!" Therefore he kicked and kicked until... crack! The egg broke open. The yolks became the earth, the juicy whites became the clouds, stars, and sky, and the two halves of the egg became the sun and the moon that shine bright on us today. That is the story of Pangu and how his legacy lives on with many different versions.

## Scientific Explanation

The big bang created the universe by a singularity exploding. After the scientists measured the ratios, hydrogen, and helium, they found out they matched the expected ratios if it came from one big star. Most galaxies appear red when observed from Earth, which means the universe is expanding. Scientists found out there were stray microwaves from the big bang. Everything we experience on Earth is from the big bang.





# How Was The Universe Created?

Author: [REDACTED]

## Scientific Explanation

The big bang started as a dense point called a singularity. That singularity was so hot and small that the pressure became too much, and it exploded. The universe is still expanding to this day from the explosion. There is also still radiation from the explosion in the universe called cosmic microwave background or CMB. The big bang happened around 13.7 billion years ago. The big bang created the universe, the Milky Way galaxy, the Sun, and the Earth - can you believe this?

## Bushongo Myth

In the beginning, there was a god named Bumba. He was in nothing but water. It was dark, pitch black. Bumba was in horrible pain one day. That day he was in pain and he vomited up the sun, a boiling hot gas ball. The heat was so hot it dried up all the water. Soon black sandbanks and reefs could be seen. There were still no living things. Bumba then vomited up the moon and stars, which brought life to the sky. Bumba vomited up nine living creatures, a leopard, eagle, crocodile, a fish named Yo, and more. Then Man came, and thus made the start of the end of the beginning.

## Internal Glow

There once was a marshmello named Sam. He got lonely, and bored so one day he was flicking his gooey hands and Poof, there was a spark that made a tiny ball of light. Sam made more and more sparks until there was a ball of light. With that ball of light he looked around the darkness and he found a planet. Sam gave that planet light. Soon Sam gave more planets, stars, and suns light. Eventually he gave all of the universe light, But there was still no life. Sam kept looking for more things in the universe, but still no hope for life. He found out he could make things like food for himself. Sam knew there was something missing but had no clue what. Sam made a friend, a frog. There was a problem: the frog wasn't alive, it wasn't moving. Sam tried and tried to make Life out light, but it was weird; it needed something better. Sam looked around and saw a very small planet, found on the edge of our solar system, named Pluto. He knew that Pluto had something more than light, it was dust but not ordinary dust. He mixed the dust and the light together. It formed itself into a human! Sam made another and another and that's how the universe began.



# How Did The Universe Form?

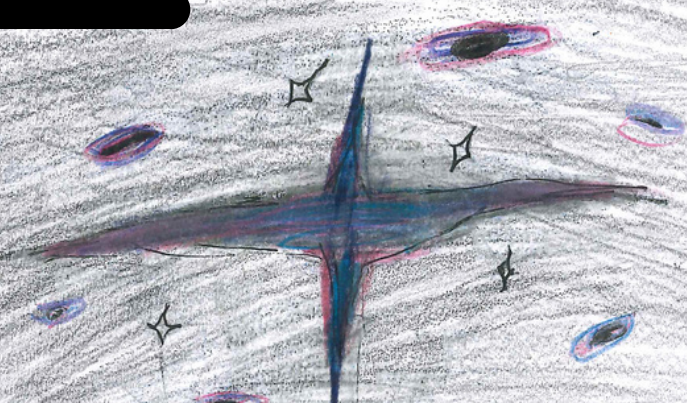
By [REDACTED]

## Scientific Theory

The Big Bang Theory is a scientific explanation of how the universe was created. The universe all started from one tiny star and exploded to create what we have now.

Before the universe, there was nothing, but one tiny star. Then, 13.7 billion years ago, that one star exploded to create stars, galaxies, planets, and what we have now in our universe.

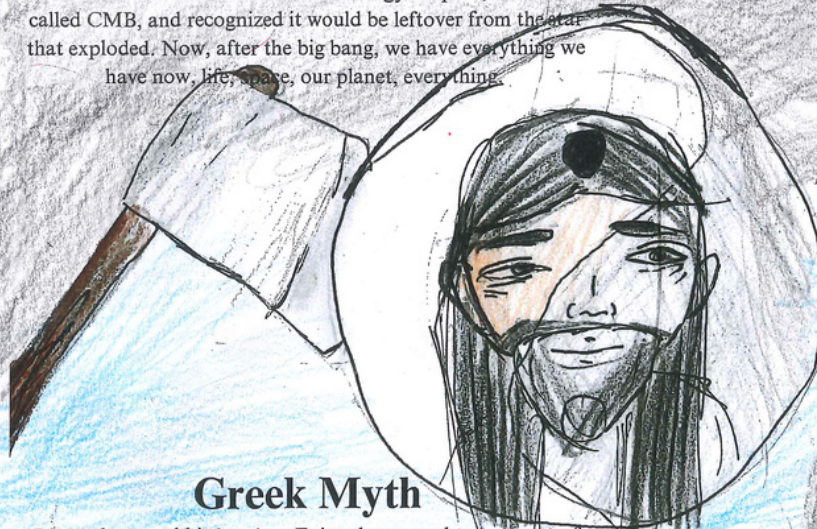
In order to know this information, scientists measured the ratio of elements hydrogen and helium, and discovered the amount of elements they measured matched how much there would be if the universe was once one small star. Scientists studied the wavelengths of objects in the universe to find out that the universe was expanding, which supported the idea that the universe was once one tiny star. The last thing scientists did was look at the leftover heat and energy in space, which is called CMB, and recognized it would be leftover from the star that exploded. Now, after the big bang, we have everything we have now. Life, space, our planet, everything.



## Ancient Chinese Myth

The universe was Yin and Yang, stuck in the middle of chaotic darkness. Yin and Yang fought against each other until they became equal, which culminated after 18,000 years to make an egg. An egg which contained a little hairy horned beast, named Pangu.

Pangu broke free from the egg, swinging his ax like a lumberjack. The egg split into two pieces, one piece of the egg became the moon and the other piece became the sun, the yolk became the earth and the whites became the stars.



## Greek Myth

Prometheus and his brother, Epimetheus, made a man out of clay. Once the man, named Man was made, he asked Zeus if he could have fire, a power only gods can have, and Zeus said no.

Man then was very unprotected, and felt like he couldn't successfully survive. Man's creators, Prometheus and Epimetheus then decided to give their wonderful creation the power of fire, and Man was thriving.

Zeus saw the fire coming up from the sky and Zeus got furious. Zeus got very mad and decided to punish one of Man's creators, Prometheus, and Man. Zeus put Prometheus on the top of a mountain, and every single day an eagle swooped down and ate Prometheus's liver. It then grew back every-night.

Zeus then punished Man by sending the first woman down named Pandora which carried a jar full of evilness everywhere she went.



# How Was The Universe Created?

By Jo

## Scientific Explanation

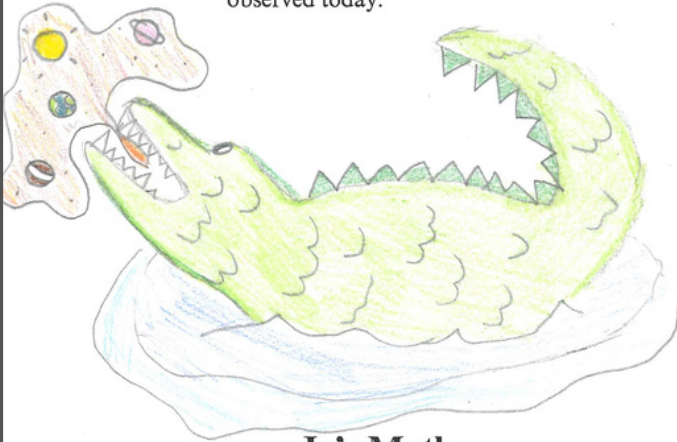
The big bang was caused by a singularity exploding. Scientists know this because of the measured amount of elements, the observed expansion of space, and the discovery of the cosmic microwave background (CMB). The big bang happened about 13.8 billion years ago. the expansion of our universe can still be observed today.



## African Myth

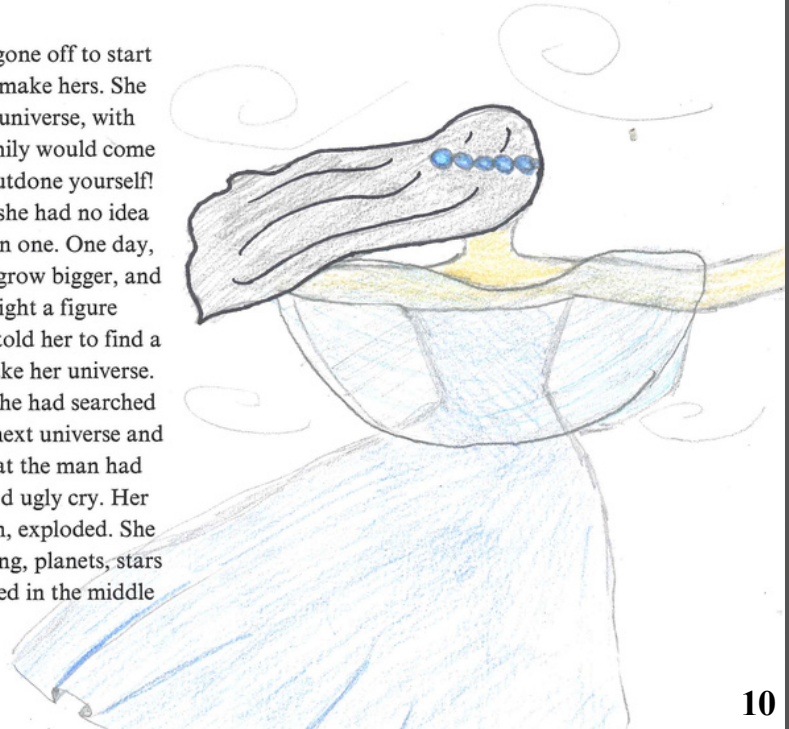
Once, Bumba was all alone in the dark. He wanted something to do and someone to accompany him.

One day, he had a terrible stomach ache. He thrashed and strained, desperate to free himself of the pain. Finally, he threw up the universe starting with the sun, and with the sun's light, he could see the other things he had thrown up, like land and water! Still in pain, he retched again and threw up creatures to roam the land and water, and from those creatures, they made others and last of all, humankind.



## Jo's Myth

Mandooboo was all alone. All of her family had gone off to start their own universes without teaching her how to make hers. She often imagined that she had created a beautiful universe, with multiple planets and space rocks, and that her family would come to visit and say, "Mandooboo! You have really outdone yourself! This universe is much better than mine!" but no, she had no idea how to even start to create a universe, let alone run one. One day, she saw a flash of light in the distance, it began to grow bigger, and bigger, until it was blinding! Then, from that light a figure appeared, it was a man, dressed in long robes. He told her to find a kakalandein crystal and that is how she would make her universe. So, she traveled far to find this crystal, but when she had searched all the way to the corners of her universe, and the next universe and the next, she began to grow mad, she thought that the man had tricked her, so she went home and had a very good ugly cry. Her tears were so loud, that the orb of rock she lived in, exploded. She saw things that she had dreamed of as a little godling, planets, stars and last of all, a hot, glowing orb, soon to be placed in the middle of Mandooboo's solar system.



# How Did The Universe Start?

By: Jeirany Amanda

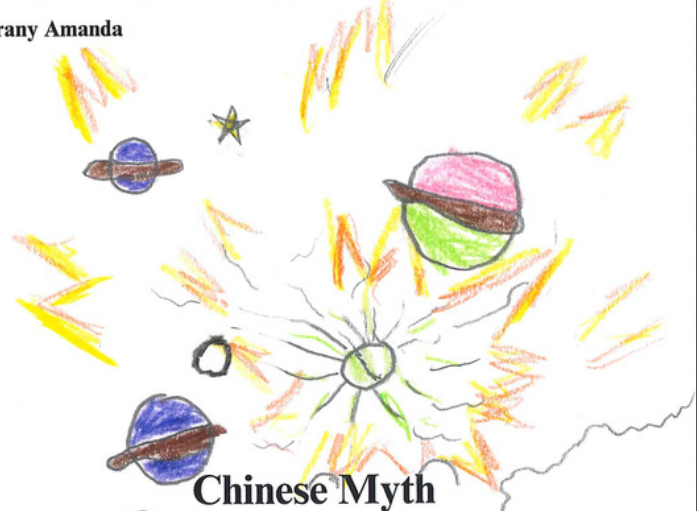
## Scientific Explanation

The big bang was an explosion that released all the things in the Universe. There is strong evidence for the Big Bang Theory. The big bang was one of the most powerful explosions ever. What caused the big bang was every speck of its energy jammed into a very tiny point. In the 1920s scientists discovered a relationship between a galaxy's distance from Earth and its speed, so this helped scientists study the big bang.



## Greek Myth

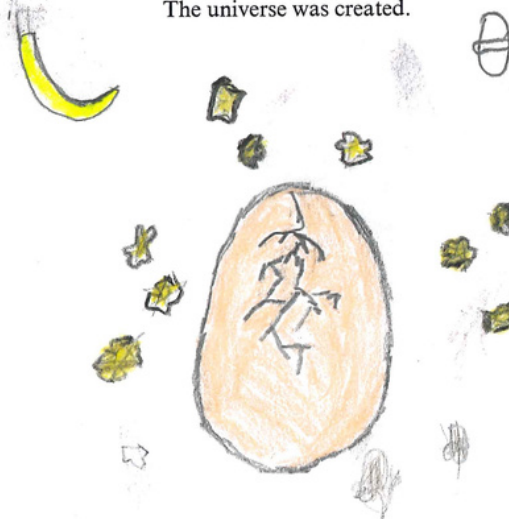
Gaea and Uranus. The earth was so dark until she met Uranus. They were in love. After that they both were in love and they lit up the world. You may be wondering why it lit up now? But the reason is Gaea was lonely and when she met Uranus she felt a spark. And they both felt the same way for each other. As you may know Gaea was also her mother earth. She's also God of nature so that's also the mother of the titans. Gaea is the mother of the earth



## Chinese Myth

There was nothing and then it turned into chaos. Out of the chaos Pangu was created in the shape of an egg, it was also very dark for a really long time. Pangu was also formed from the first union of the yin and yang. Pangu was very claustrophobic, (because of the egg) so he said "heck nah" it's time for Pangu to try to free himself from the egg shape. He did a really odd dance move and then he cracked the egg open. Then he exited down out of the egg. Could you imagine the pressure on his body? Pangu felt very dizzy. Around him the egg shell opened in two slices. He was so proud of himself because he cracked out the egg. The white yolk turned into the stars. Remember this was the first time Pangu was seeing light. He was amazed.

The universe was created.



# How Was The Universe Created?

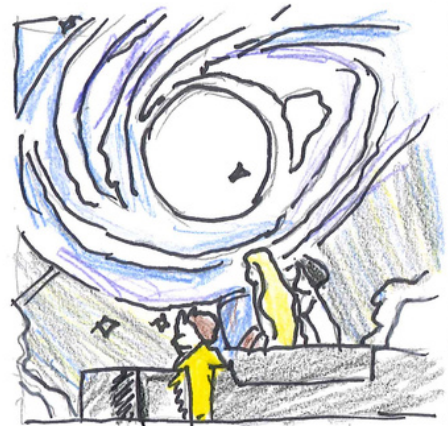
By [REDACTED]

## Scientific Explanation

The big bang was caused by a singularity exploding in a place with nothing. The singularity exploded about

13.7 billion years ago. Before the first stars and galaxies could form, the exploded singularity had to cool down because it was 10 billion degrees Celsius!

After it cooled down, the first stars and galaxies started to form. Support for this theory is that the universe is always expanding. Another piece of evidence for this theory is that some people found microwaves in the air that made phones make a static noise. Due to the explosion, the universe was created.



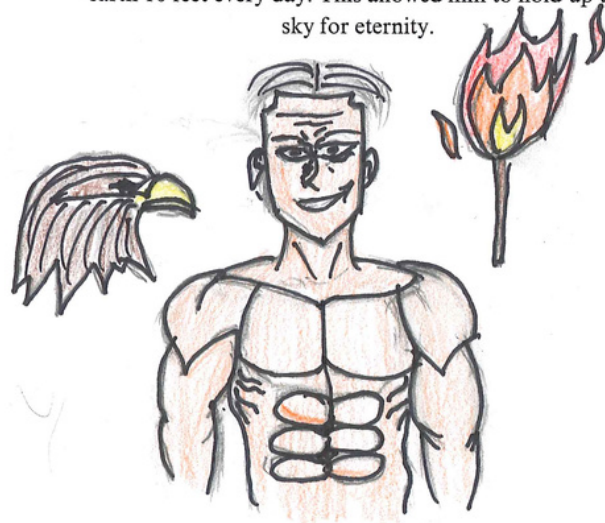
## Chinese Myth

From Chinese mythology, Pangu is a god born from an egg and when the egg cracked the universe was let out and life was created. Pangu wanted to get out of the egg because yin and yang were unbalanced and that created chaos in the egg. To leave the egg he swung his great axe to break the egg. By breaking the egg yin and yang were released. Not only did breaking the egg let yin and yang go, it also created life, stars, and the universe. Yin went down to earth and yang settled in the heavens. This created balance because doing the act of breaking the egg created peace in the universe. But to keep yin and yang in their respective places and to keep himself from getting stuck in between both, he held up the sky. He held up the sky for 18,000 years and every day he grew 3 feet, and the earth 10 feet every day. This allowed him to hold up the sky for eternity.



## Greek Myth

Prometheus and his brother were gods trusted to make, name, and give the many fish and birds gifts. Prometheus made man/humans. Zeus said that they could not have too much power or they would fight back. But Prometheus thought man should have some power to help them survive. So Prometheus asked Zeus to give man fire but Zeus said no! Prometheus tricked Zeus and gave man fire. But when Zeus found out he was very mad because fire was starting wars and killing man. So Zeus chained Prometheus to a mountain and every day a bird would come to the mountain and eat his liver. Every day it would grow back. But Prometheus was not showing remorse. This is the mythological story of how humans were made.



# How Does The Sun Work?

By [REDACTED]

## Explicación Científica

El sol nos mantiene en órbita. El oro y otros elementos vienen de las estrellas. El sol nos da vitamina D. El sol nos provee la luz. El sol tiene fuerte gravedad porque es masiva. Cuando es verano, el sol da calor.



# How Do The Sun/Stars Work?

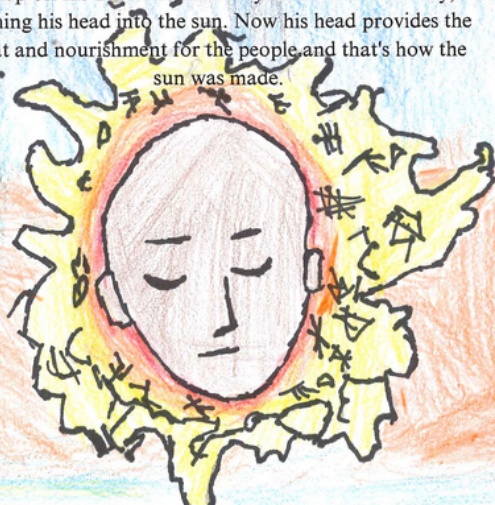
By [REDACTED]

## Scientific Explanation

The Sun is very hot. The Sun is in the center of our solar system. If the Sun disappeared, then the people on Earth would not know for 8 minutes because of the speed of light and force of gravity. The Sun is important because it helps trees grow and trees give oxygen to living things.

## San Myth

At one point in time the world was mushy and watery. There was a man whose head was very blinding due to how bright it was not to mention it warmed the land as he lived on making it dry and barren. His head was very valued because it helped people grow crops. They managed to chop off his head and then they threw it into the sky, turning his head into the sun. Now his head provides the heat and nourishment for the people and that's how the sun was made.



## Helios Myth

Helios the sun god had 7 children one of them being a boy. One day when the boy grew up his mother told the boy that helios was his dad. One day another kid said his mother was lying then the boy was full of doubt he decided to ask his mother about this and she reassured him that he was indeed helios' son but the boy was still doubtful then the mother sent him out to go ask Helios himself. Once he got there he saw a blinding light within the palace. Once his eyes adjusted to the light he saw the sun god helios right in front of him, he decided to ask and it was true and helios wanted to grant him anything and the boy wanted to ride in the fire chariots helios had. Helios begged him for something different but the boy was stubborn so he started riding soon passing the stars and constellations as his grip lightened on the reigns the horses becomes uncontrollable and soon he started crashing to the earth zeus had to stop it somehow so he hit the boy with lightning to stop him midair for only one moment letting the horses free and then he crashed into a river then died. The family of the child except for helios all gathered by the river he had died at and all mourned as a way of showing a grave to the child he gave him a grave in the stars as a constellation.

# How Does The Sun work?

By [REDACTED]

## Greek Myth

One day, there was a proud Titan of the sun called Helios. He had a mortal son named Phaethon that he loved dearly and one day he made a foolish promise on the river Styx that he would let his son do anything of his choosing. His son, blind to the danger, asked to drive the sun chariot. Helios begged his son to take it back but his son refused.

Helios hesitantly agreed and opened the gates. Immediately his son lost control of the sun's horse and dipped towards the earth. Zeus, seeing the chaos, used his lightning bolt to strike him out of the sky to prevent him from causing further damage to earth. Helios, Grieving for his son, never let anyone else ride his chariot ever again except from the god of music and archery, Apollo.

This story is supposed to teach about not making foolish promises they will bite us back.



## Scientific Explanation

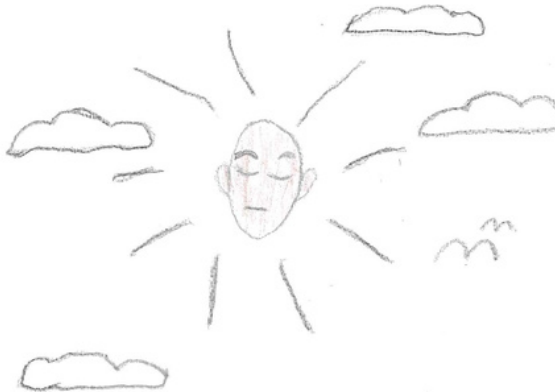
The Sun's glow is caused by hydrogen turning into helium at the Sun's core. Nuclear fusion converts energy at the Sun's core that has to come out in some way. The Sun creates different types of energy from ultraviolet to infrared and most of all, light - 127,000 lumens of it. This is how the Earth gains light and heat.



## San Myth

One day there was a nameless man who was born with a glowing head. When the world was swampy and wet he dried the earth with it, allowing crops to grow. He had one problem: he was too lazy to stay up all day. All the other villagers decided on a quick fix, to cut off his head. Shortly after on one regular day they simply cut off his head and threw it into the sky.

It lit up the sky, and became the sun. Now, his head soars hot and dries the earth, allowing all crops to grow.





# How Does The Sun Work?

By [Redacted]

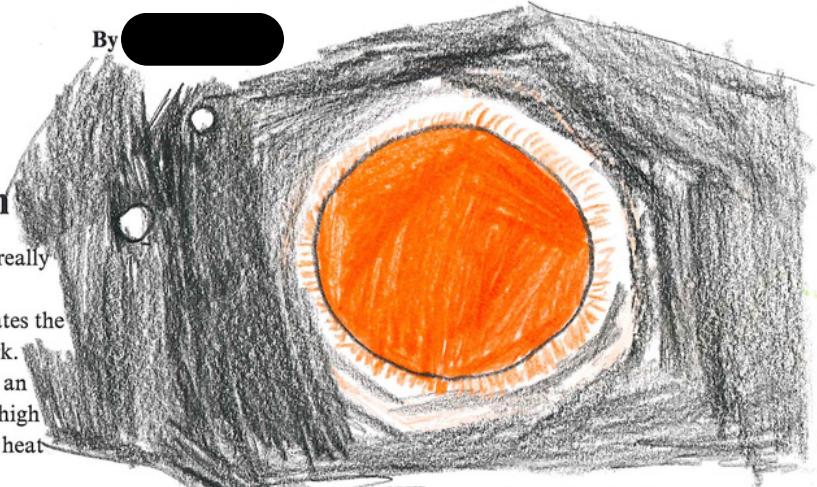
## Scientific Explanation

The Sun is powered by nuclear fusion, so it's really bright. The Sun is comprised of about 92% hydrogen and 7% helium. Nuclear fusion creates the helium and hydrogen that makes the Sun work. Mostly all of the gasses are plasma. Plasma is an electrically charged gas that is made at super-high temperatures. This makes it so Earth receives heat and light from the Sun.



## Aztec Myth

The world was dark and the Aztec gods wanted light in the world so the gods tried multiple times to get the Sun in the sky but each time they failed. One god had an idea. One god said, "We should sacrifice one god to become the Sun." Eventually, all the gods agreed about the sacrifice and they built a big fire for whoever god to jump into the flame. Finally, a god named Tecuciztecatl wants to be the sacrifice also another god named Nanahuatzin also wants to. They danced for four days and nights on the fourth night the god made two separate lines that when to the fire Tecuciztecatl was ready to jump he ran down the line but he stopped right before the fire Tecuciztecatl Said "I am scared." He ran down the line and did this three more times, Then it was Nanahuatzin's turn. Nanahuatzin ran and jumped with excitement and became the Sun. Tecuciztecatl was jealous so he also jumped and there were two Suns. One god said, "Tecuciztecatl has no right to be the Sun he was not as brave as Nanahuatzin." So Another god threw a rabbit on Tecuciztecatl and it hit and Tecuciztecatl became not as bright so Tecuciztecatl became the moon. So Nanahuatzin became the Sun.



## Greek Myth

One day as Helios was about to go off on his daily routine. His son Phaethon wanted one wish. Helios agreed to that offer and Helios swore on the river Styx to keep his promise. When Phaethon told Helios his command Helios begged Phaethon to not ride his chariot but Phaethon still wanted to. Phaethon rode Helios's chariot, Phaethon was causing too much chaos so Zeus had to kill him so the chariot got destroyed. So Hephaestus built a new one and Helios swore he would never let anyone ride his chariot



# How Do Stars And The Sun Work?

By Rhilynn

## Scientific Explanation

Today we will learn about stars. Stars can be many different colors and sizes. They can also make shapes. Do you look up and see constellations? What are they? Constellations are shapes that are made from stars. There are a lot of constellations in the sky. There is the big dipper and so many more. Look up at night to see what they look like and make.



## Greek Myth

There was a man that had a head and it was super bright and there was no sun there. So he was like the sun. But he was too lazy to be the sun. So the sun was not always up. The people were cold, so the people cut his head off. Then they threw his head up and became the sun. The man wanted to be nice and shine. He was lazy and got his head cut off. Now they have a sun but they did kill the man.

## Rhilynn's Myth

There was a very dark void that had planets. Until an aspect of dust from earth came into the dark void. After a few days the dust grew and grew. Now the dust was a goddess named Asteria. Asteria means the goddess of the stars. She loved to sparkle and shine. But she could not do that, so she made the stars. Then the stars made the constellations. Asteria went to sleep because she was tired. When she was asleep stars were shooting over Earth, so she woke up and wanted to help the people on earth. So she made a lot of stars and made the sun. Which is in the middle of the solar system.



# How Do Planets Work?

By [REDACTED]

## Mayan Myth

There are two brothers named Chak ek and Kin ahaw. Both traveled from the underworld to the heavens. Chak ek came first but Kin ahaw was more popular. Because of this, Chak ek made a plan to kill his brother and his brother's allies.

According to Mayan stories, Chak ek represented Venus and kin ahaw represented the sun. Chak ek was jealous of his brother Kin ahaw because he was bigger and brighter. There were 5 cycles where Venus appeared before the sun which made him stronger than his brother Kin ahaw each cycle took 584 days. So he killed Kawil, the god of lightning. 584 days he injured his brother the sun god which caused a fight. 584 days later he messed with Taknaak. Then next 584 he messed with a westerner who was the last person of his brother's allies. This story explains the cycle around the sun.



## Scientific Explanation

Planets were formed by dust and gas that were around the Sun.

All the planets orbit a star. A planet must be big enough to have the gravity to force it into a spherical shape. A planet must be big enough that its gravity cleared away any other objects in its orbital path. Since planets were formed around our Sun, sometimes other planets are observed from Earth.

## Greek Myth

Gaea the Earth came out of darkness so long that they don't know how long ago. But above her there was Uranus the sky. When Gaea looked up and fell in love with him soon after they married each other she first gave birth to the Titans there were six with 6 sisters the titanesses which were the titans wives. When Gaea gave birth again Uranus looked angry. Each one of them had 50 heads and 100 hands each! Uranus banished them to the darkest pit when Gaea did not forgive Uranus because. She loved all her children. so she told the youngest Cronus the strongest among all of them she gave him a weapon Uranus could not withstand the power of the weapon so Cronus took over his father. Mother Earth made Pontus made him boundless sea her second husband and out of her crevices a man



# How Do Planets Work?

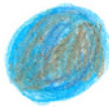
By

Poseidon

## Greek Myth

In Greek and Roman names each god has a different name in each Greek or Roman. Poseidon is a Greek name and his Roman name is Neptune like one of our planets. Apollo is a Greek name and his Roman name is Apollo

the same thing for Greeks, they all have different powers for different things.



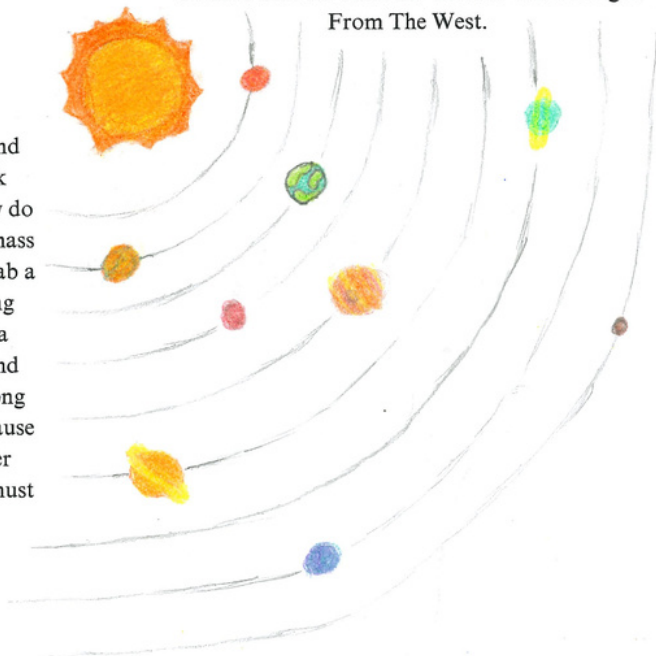
## Scientific Explanation

How do planets stay in place and not wander around the universe, you may ask? Well, our planets work because they are orbiting our star (the Sun), but why do the planets not drift away? Small planets have less mass than bigger stars. Say you grab a hula hoop, then grab a cloth and clip it to the hula hoop. Then grab a ping pong ball, which is the object with less mass, and a bouncy ball, which is the object with more mass, and put them on the cloth. You will see that the ping pong ball rolls towards the more massive bouncy ball because of its mass. This is why our planet does not wander around the universe. For a planet to be a planet, it must orbit a sun which makes it part of a cosmic neighborhood.



## Mayan Myth

According to Mayan stories, there were once two gods named Chak Ek' and K'in Ahaw. They were gods of two types of planets. Chak Ek' was the god of Venus and K'in Ahaw was the god of the Sun. In this story, Chak Ek' was jealous of his brother K'in Ahaw (the sun). After all, his brother was always worshiped by the Mayan people because he was the Sun. Before Chak Ek' injured his brother he killed K'awiil the god of sustenance and lightning and the Mayan people lost to rain, next on Chak Ek' list was the God of Maize, the god who provided food and sustenance, and the Mayan people lost food. Next on Chak Ek' list was Ak Na 'Ak who was the summer solstice God and with Ak Na 'Ak injured the Mayans lost food supplies, but that is not the end because next on Chak Ek' list was The Stranger From The West.



# How Does The Planet Venus Work?

By [REDACTED]

## Scientific Explanation

Scientists think Venus was formed by gas, dust, and ice in a large cloud in our solar system that collapsed into a spinning object. Venus is the second closest planet in our solar system to the Sun, which makes Venus hot. Venus is a rocky planet that can be seen from Earth's night sky, and it spins slowly in the opposite direction of other planets.



## Mayan Myth

Chak ek represents Venus and Kin Ahaw represents the sun. Both of them came up from the underworld Chak ek rose first but Kin Ahaw outshone him which made Chak ek jealous so Chak ek went back down to the underworld to plot against his brother. Kin Ahaw then came back up and killed his brothers' allies to cause chaos. And Chak ek killed five of his brothers' allies then they fought about who would rise first because they were jealous. The war went on for the cycle that took eight years to complete.



# How Do Planets Work?

by Mr. Rayan



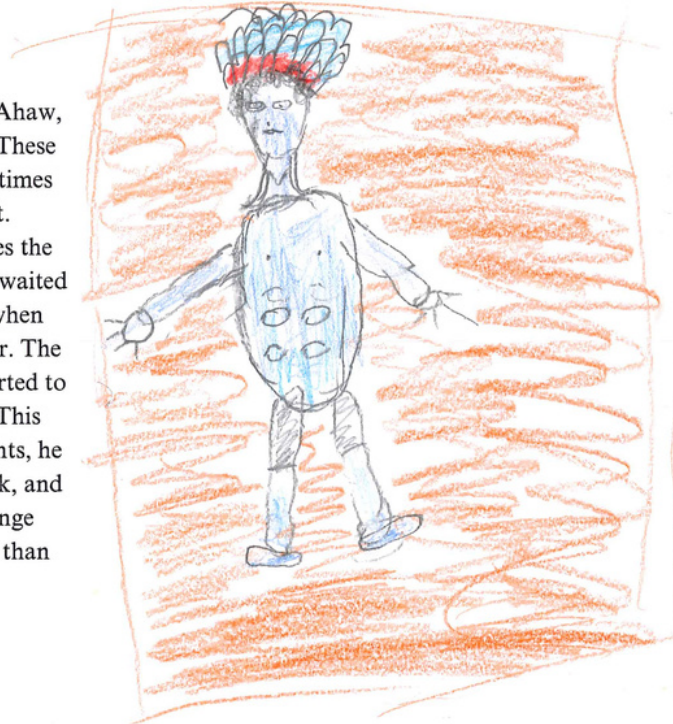
## Scientific Explanation

Saturn is full of hydrogen and helium. Saturn's rings are made out of little rocks and dust. Saturn is not the only planet that has rings. Uranus also has rings. Fun fact Saturn is the farthest planet that you can see with the human eye.

## Aztec Myth

The Aztecs believed the sun, whom they called K'in Ahaw, was better than Venus, whom they called Chak Ek. These two planets had a special relationship because sometimes Venus rose first and sometimes the sun rose first.

Sometimes Venus is the morning star, and sometimes the evening star. The Aztecs watched the Venus star and waited for the sun to come up because they believed that when Venus came up before the sun, Chak Ek was stronger. The Mayans believed that every 584 days when Venus started to rise before the sun, Chak Ek' would seek revenge. This happened 5 times over 8 years. During these five events, he killed K'awill, Kin Ahaw, the god of Maze Ak Na Ak, and the traveler from the west. This helps him get revenge against his brother because he is superior (brighter) than him.



# How Do Planets Work?

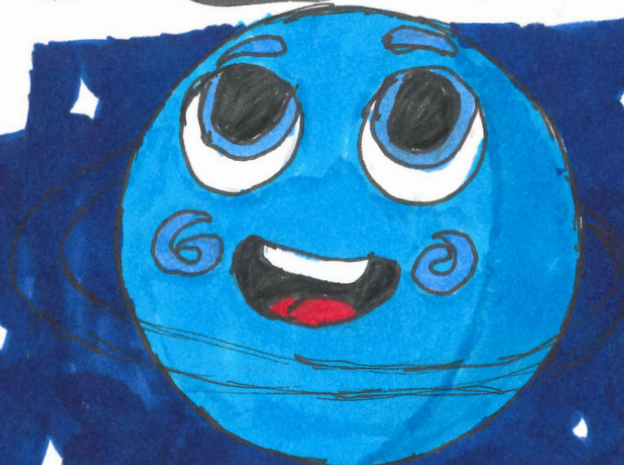
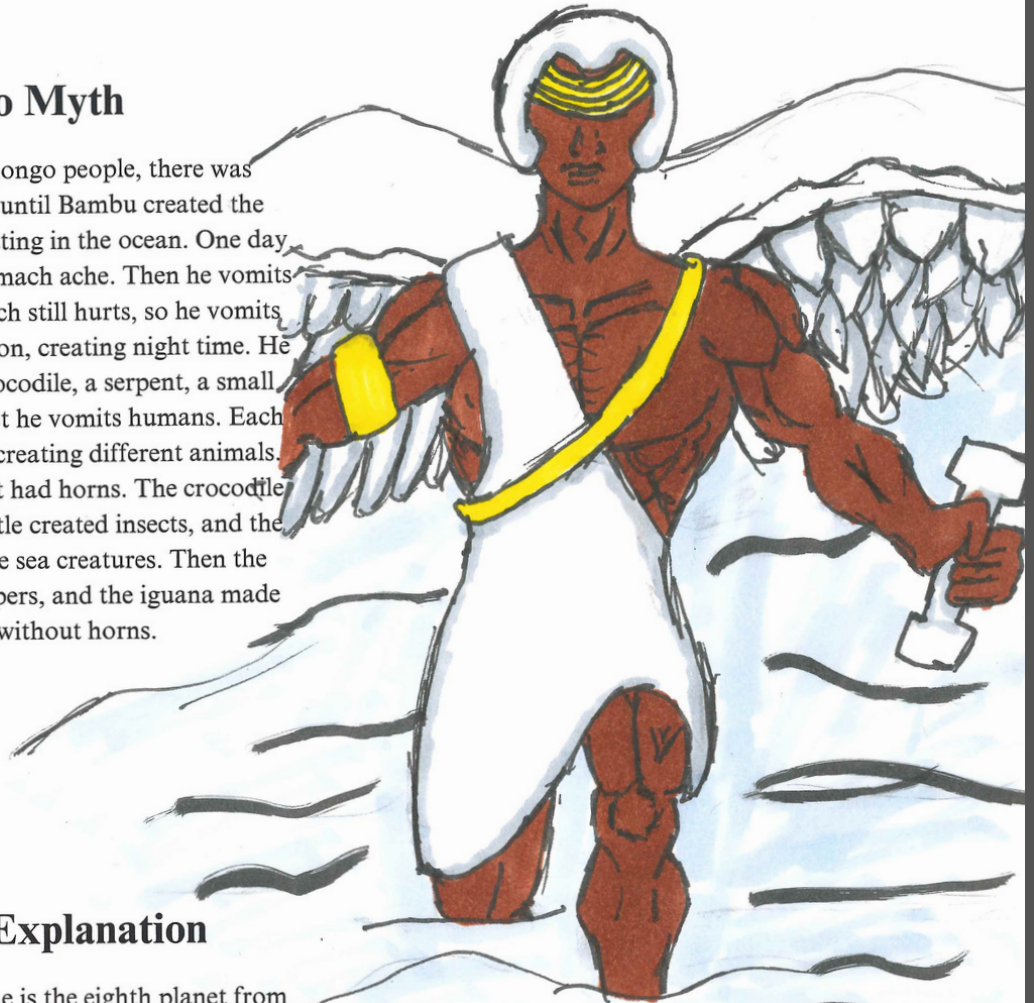
By Faustino

## Bushongo Myth

According to the Bushongo people, there was nothing in the universe until Bambu created the universe. Bambu was floating in the ocean. One day Bambu had a massive stomach ache. Then he vomits the sun. After, his stomach still hurts, so he vomits again, and vomits the moon, creating night time. He then vomits a goat, a crocodile, a serpent, a small fish, and a beetle, and last he vomits humans. Each animal was in charge of creating different animals. Goats created beasts that had horns. The crocodile created a snake. The beetle created insects, and the small fish created all the sea creatures. Then the serpents made grasshoppers, and the iguana made the creatures without horns.

## Scientific Explanation

Did you know Neptune is the eighth planet from the Sun? The cold of Neptune is caused by how far it is from the Sun and its winds. In detail, Neptune is exactly 2.7792 billion miles or 4.5 billion kilometers away from the Sun. It receives very little heat from the Sun, so it is no surprise that it is -353 Fahrenheit (-214 Celsius).



# How Do Planets Work ?

By [REDACTED]

## Scientific Explanation

Pluto was formed by a solar nebula made of dust and gas. Pluto did not clear its orbit of space debris, and so scientifically it is considered a dwarf planet. Did you know that Pluto is closer to the Sun than Neptune, and also Pluto has actual white mountains? Something spooky about Pluto is that one year on Pluto is 248 days on Earth.



## Mayan Myth

Once there was a guy named Chak Ek. He was the morning star. He rose from the underworld to the surface of the eastern sea. He has a brother named Kin Ahaw the sun followed. They didn't like each other because they would always argue about who would be the ruler of the kings and gods but Kin Ahaw always won. Chak Ek was furious, he set war upon the planets but Venus was not even close to beating Kin Ahaw because the sun was much brighter than Venus. Chak Ek was only powerful when Venus rose before the sun. During this time, Chak Ek killed five gods for each time Venus rose before the sun .

This happened every 584 days, or, as the Mayan people kept track of, 5 time every 8 years.



## Greek Myth

There is a god called Jupiter. That's what the Roman people call him. Actually they had plenty of names that the Romans called the Greek gods, most of their Roman names are planets. There are plenty of Greek gods out there that are named after planets. All the gods that are not named after planet (Hera Artemis Demeter Hestia) and plenty more. Roman people named the Greek gods mostly planets because the early astronomers in Europe wrote in Latin, and Latin was the language of the Roman Empire .



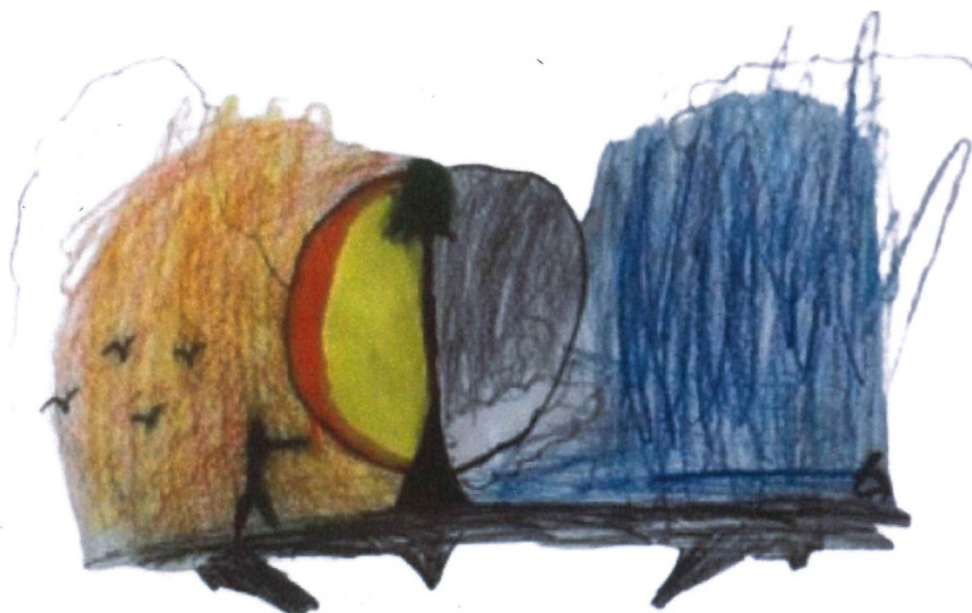


# How Do Day And Night Work?

By [REDACTED]

## Explicação Científica

A terra gira. Um dia e uma noite.  
Quando nós voltamos para o sol e dia.  
Quando nos afastamos do sol e noite.



# How Do Day and Night Work?

By [REDACTED]

## Tswana Myth

At the crack of dawn, the Tswana people believed that the Sun would start in the east, cross over the dome of the sky, and settle in the west. The Tswana people were afraid that the Sun would be stuck, down in the west every night, but luckily, there was a very large crocodile just waiting for the Sun to come down. Once the sun came down, the crocodile swallowed the Sun and kept it for the night. In the morning at dawn, the crocodile spat out the Sun into the sky, and the cycle began again, creating day and night.

## Greek Myth

In Greek mythology, In the morning, the tip of dawn, the goddess Eos, goddess of dawn, brought the morning up to the sky with her brother, Helios, brought the bright Sun. They were up all day until dusk. When dusk came around, Eos's sister, Selene, went up to the sky as the Moon, and brought the night sky. The cycle went on and on as the sibling gods cycled through being dawn, sun, and the moon/night.

## Scientific Explanation

When the Earth rotates on its axis, the Sun's light shines on only half of the Earth, so half of the earth would be day/light, and the other half of the Earth is night/dark. This takes around 24 hours to complete this cycle.

24<sup>HRS</sup>

# How Do Day and Night Work?

By [REDACTED]

## Mbuti Myth

There was a hunter god named Khonvoum. He had a bow that looked like a rainbow made from two snakes. The people were scared that the Sun would not be bright enough for the day. So he decided what if he shot stars in the Sun. Then the Sun would be bright for morning. Now, every night he shoots star parts into the Sun to make it bright for the day.



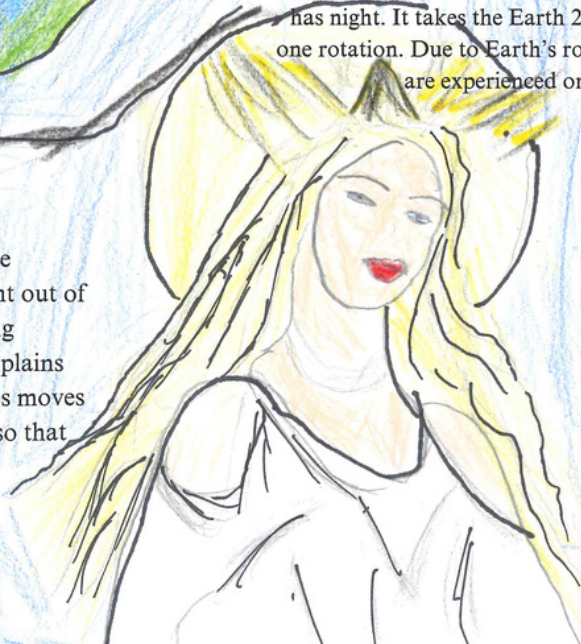
## Scientific Explanation

Day and night are caused by the rotation of the Earth on its axis. On Earth, we observe sunrise and sunset, but the Sun does not move. Earth rotates from west to east, and that is why it looks like the Sun rises and the Sun sets. When one half of the Earth faces the Sun, that half of the Earth has day, while the other half has night. It takes the Earth 24 hours to complete one rotation. Due to Earth's rotation, day and night are experienced on Earth.



## Greek Myth

Eos is the goddess of the dawn. She has a job every morning to move the night out of the sky and announce the upcoming arrival of Helios, the sun. This story explains how day and night work. It tells how Eos moves the night out of the sky in the morning so that Helios, the sun, can rise.

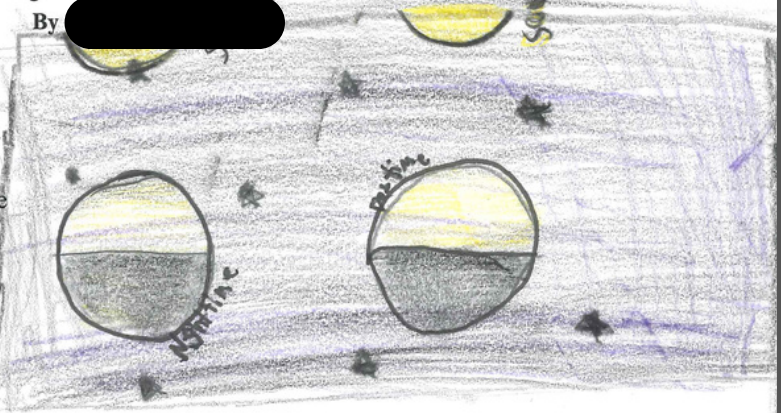


# How Do Day And Night Work?

By [REDACTED]

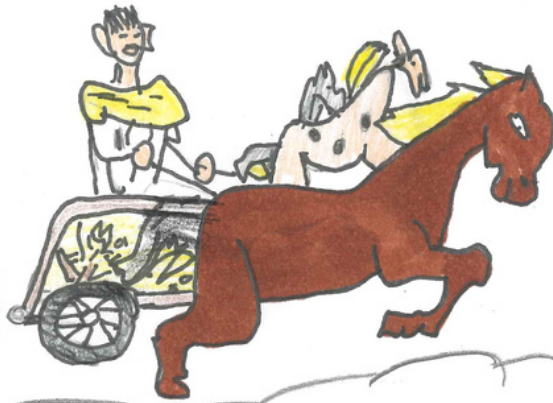
## Scientific Explanation

Day and night are caused by earth's rotation on its axis. Earth and the Moon move in different ways. The Earth revolves around the Sun, the Moon revolves around the Earth. Earth turns once on its axis every 24 hours. Earth rotates west to east on its axis so on earth we see the sun move east to west. The half of the earth facing the sun experiences day, and the other half is dark so it experiences night.



## Greek Myth

Helios is the sun god, Helios has a chariot, he rides it every day for the earth to be bright, Helios has a son called Phathon, Helios says, " I will grant what he wants and Phathon wants to ride Helios' chariot, but Helios does not want to, but he lets him. So Phathon took his chariot and went to space and he went too far. The earth froze so he stopped and the chariot got out of control and went down. Zeus saw it and was scared the earth was going to end so he got a lightning bolt and threw it at Phathon. Phathon fell into a river and never emerged. Helios kept going on his daily ride on his chariot but he was sad he lost his son. Helios is the sun god, who gave Earth the sun.



## Mbuti Myth

There was once a hunter god called Khonovoum. He had a bow made from two snakes. It appeared like a rainbow. Every sun rises the Mbuti people notice the sun getting weaker, Khonovoum notices too, so each day he gathers stars to throw at the sun for it to be bright every day. Without Khonovoum the sun would be dark, and Earth would be all dark. And if that happened there would be chaos on Earth, with no food to live.



# How Do Day And Night Work?

By Edwill

## The Sun

Once upon a time, there was a world that was wet and watery. And there is a man whose head was bright and could warm the whole world. But he was way too lazy to stay up the whole day and dry the world from its wateriness, so the people in the world cut his head and chucked it to the sky. And the sun stopped in one perfect spot in the sky and did not come back down. Now on his head brightening everyday and now we call it the sun.



## Greek Myth

Once upon a time there was a man named Helios. He had 7 daughters and he recently had a son and his name was Phaethon. And he moved to somewhere else and the people there didn't believe that he was Helios's son. So he went to his father's house to make sure. Then he asked his dad to ride his chariot to show everyone that he was really his son and to make sure himself. Along the way, he couldn't really control the chariot and then when it was falling the Earth became dried up and Zeus didn't like it so he struck him with lightning.

## Scientific Explanation

Day and night are caused by the Earth's rotation. The Earth rotates on its axis in one day. A day is 24 hours long. The sunlight hits half of the Earth at a time. When the sun hits the Earth, it is daylight, and when it hits the other side of the Earth, it is nighttime.



# How Do Night And Day

## Tswana Myth

The sun wakes up every morning, it takes a journey across the sky until it gets tired and it goes down in the west. But then it gets eaten by a crocodile. Then there's darkness for twelve hours.

While he digests it it's night time, when he "excretes" it (poops it out), it is day time again. And that is why Tswana people think we have night and day.

## Work?

By [REDACTED]



## Scientific Explanation

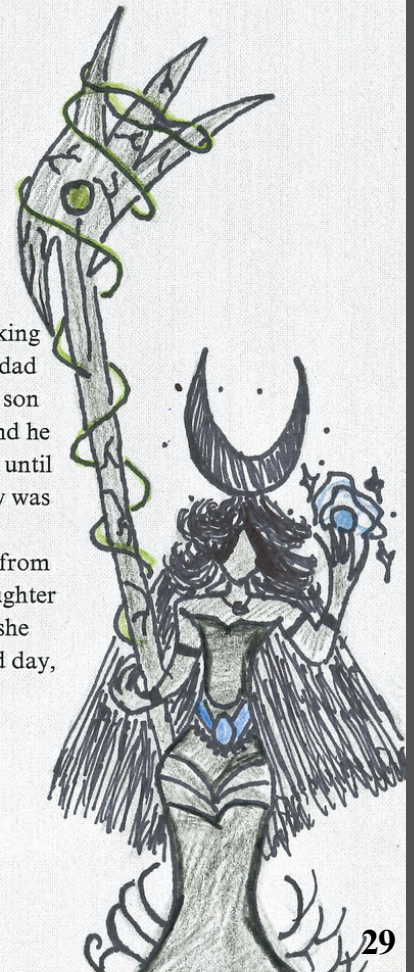
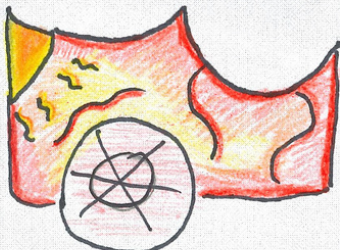
Day and night are caused by Earth's rotation on its axis. The Earth takes 24 hours to complete one rotation. The half of the Earth facing the Sun observes day, and the other half sees night. Some people think that throughout the day the Sun moves, but it does not. Earth rotates west to east, and that is why we have day and night.



## Greek Myth

Helios rides his fiery chariot everyday to Eos's palace in the east, with his loyal steeds taking him places. Helios was Phaethon's dad als Phaethon was a mortal. When he went to his dad (Helios) to ask him to grant one wish, he said yes but he quickly regretted it because his son wanted to ride his chariot. It turned out to be a disaster. The steed was too untameable and he ended up falling to Earth and Hephaestus had to work on rebuilding his chariot all night until he could ride it again. After that he never let anyone except Apollo ride it again. this story was about day now the next story is about night.

Nyx Was the personification of night. She was mysterious. She took in the dark energy from the underworld. She was very powerful and she was even feared by Zeus. Nyx was the daughter of Chaos. She had a chariot that she rode after Helios, so after he finished his journey she would ride and she would make the night. That is why the Greeks think we have night and day, because of Helios and Nyx.



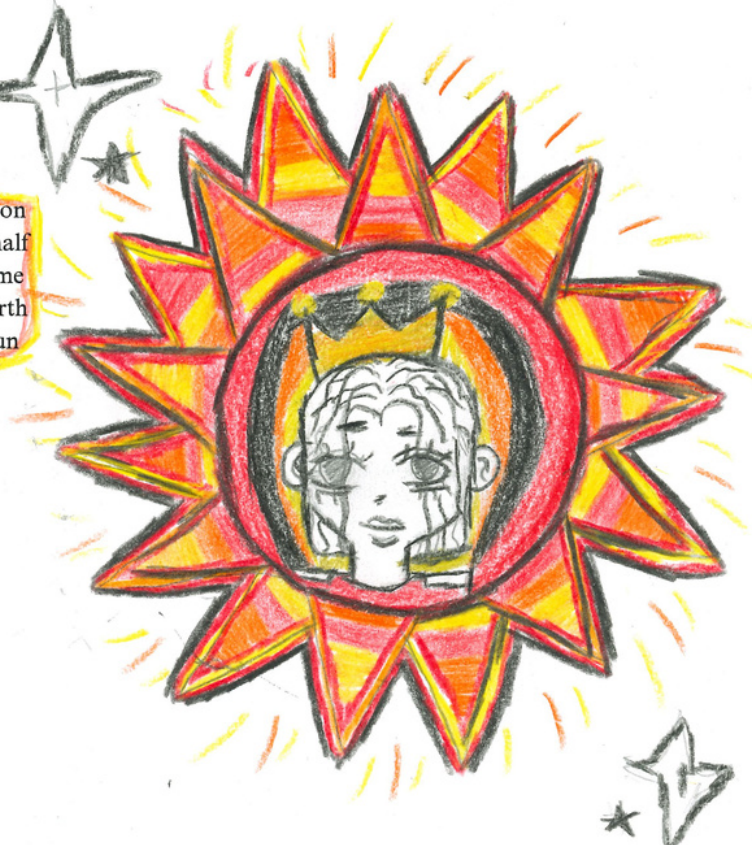
# How Do Day And Night Work?

By [REDACTED]



## Scientific Explanation

Day and night are caused by the Earth's rotation on its axis. Earth rotates every 24 hours. The half of Earth that is facing the Sun is having daytime and the other half is having nighttime. The Earth rotates west to east, and so it looks like the Sun rises in the east and sets in the west.



## Social Studies Myth

According to Chinese mythological stories, there was once a dragon that controlled day and night and the seasons. It was called the candle dragon. They said that when the dragon closes its eyes it is night and when he opens it is day. One of his eyes is the moon and the other the sun. He opens one of his eyes day or night. The candle dragon is powerful and a reminder that there are many beliefs about.



## Myth Greek Story

Helios is the sun and unleashed his golden chariot set out across the sky then he fell in love with Clymene and they had seven daughters and one son named phaeton. Clymene left him with her 8 children

Clymene married king merops of ethiopia. Clymene told phaeton how powerful his father is and he is the god of the sun. When phaeton grew up Epaphus the son of zeus told him that Helios isn't his dad. Phaeton went to Clymene and asked her if zeus is his real father and Clymene said yes but Phaeton had doubts so Clymene sent phaeton to go ask his father Helios. Phaeton walked in long deserts and researched his father's gate and saw him. Phaeton wanted to prove the world and the ppl that Helios was his father so he wanted to

# How Do Years Work?

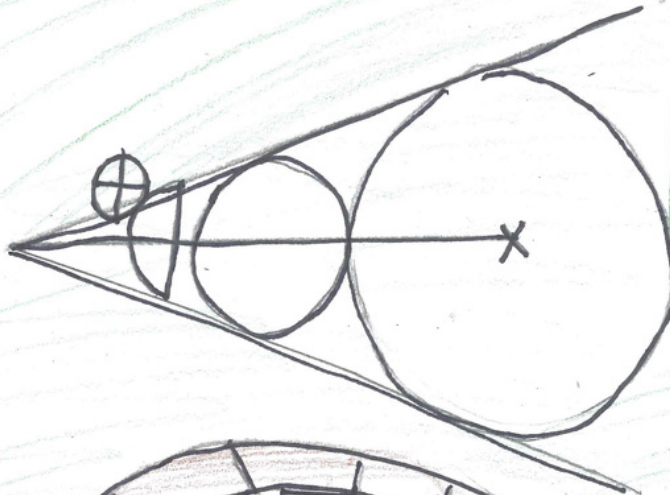
By [REDACTED]

## Scientific Explanation

Years are caused by Earth's revolution around the Sun. A revolution is a trip around the Sun.

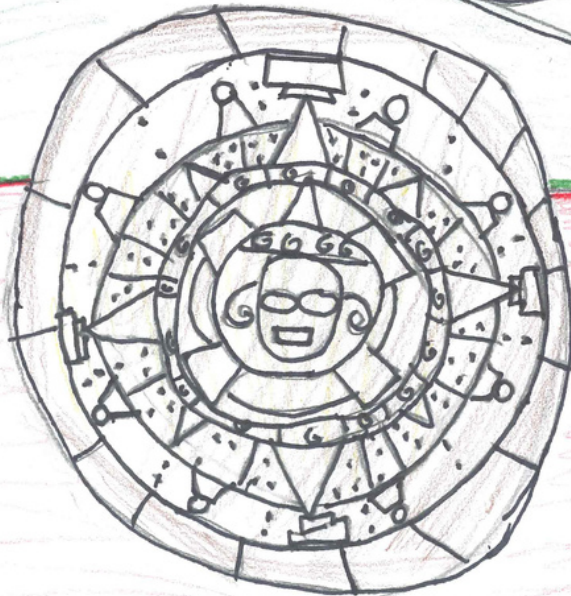
One revolution takes a year. It takes  $365 \frac{1}{4}$  days for the Earth to go around the Sun.

In  $365 \frac{1}{4}$  days there are four seasons. One of those seasons is  $\frac{1}{4}$  of the year. On Earth after one revolution, we have a new year.



## Greek

All Athenian calendars used lunar cycles and solar events (typically solstices and equinoxes) to affix dates. These calendars ran from midsummer to midsummer. Lunar months each contained 29.53 days. They used these methods because they knew they could count on the stars.



## Aztec

The ancient Aztec people kept track of the constellation Pleiades. The ancient Aztecs wanted to keep time because they had important events. The events included auspicious days for weddings and certain celebrations for the gods. The Aztecs lived in fear that if they did not follow the calendar there would be severe consequences. For instance, Tlaloc would not make it rain or Huitzilipochtli would not let the sun shine. This would cause widespread suffering and death. The Aztec calendar was very important because it made it people feel safe.

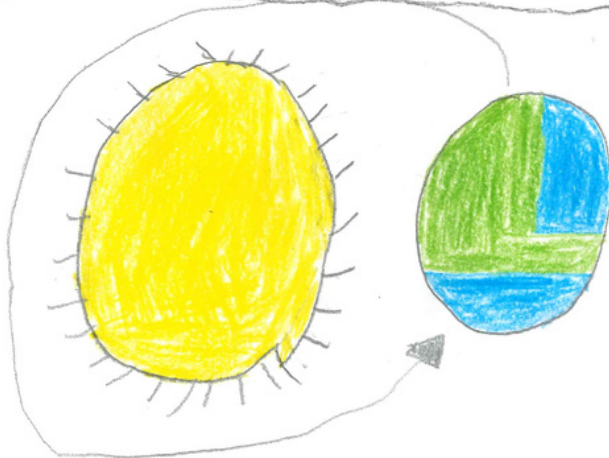
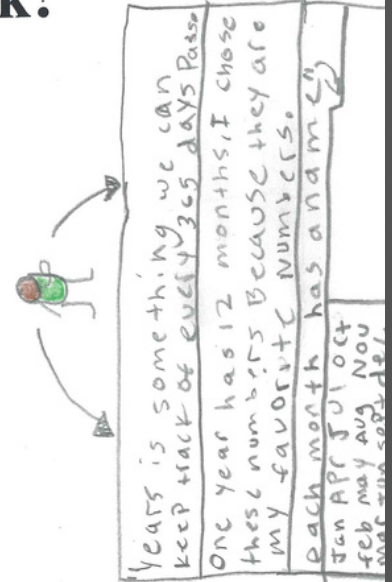


# How Do Years Work?

By [REDACTED]

## Greek myth

Once upon a time there was a man. The man wanted to organize the time and the dates and have something new every 365 days. He noticed that there were different seasons every quarter of the year. So he came up with Years. He explained to his people and his village about what a year is. He said, "years is something we can keep track of every time 365 days pass." He also said, "One year has 12 months, I chose these numbers (365 and 12) because they're my favorite number. Each month has a name." So he named them January, February, March, April, May, June, July, August, September, October, November, and December. Soon the word spread around the world.



## Scientific Explanation

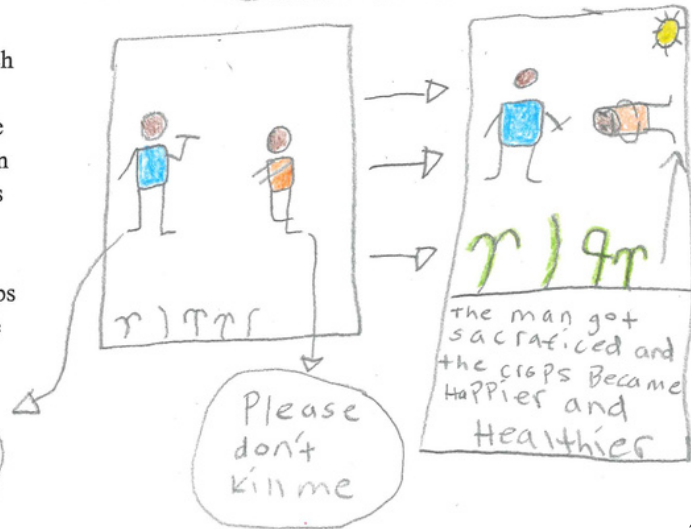
Years are created by Earth's revolution around the Sun. The revolution of Earth is about 365 and a quarter days. In every year, there are four seasons; those four seasons are: spring, fall, summer, and winter. Each season takes up about a quarter of the year. One revolution equals about one year, so if the Earth revolves around the sun 10 times it would be 10 years. When the Earth completes a revolution around the Sun, it is a new year. Some people celebrate something called New Year to celebrate the Earth's completion of revolving around the Sun.

## Aztec Myth

There is something called an Aztec Calendar, which helps the Aztec people to keep track of when to harvest their crops. This helped Aztec people take care of their so they have as much food as they can get. This is because they believed in certain rituals and traditions that would help keep their crops healthy.

If the Aztec people wanted to really keep their crops healthy and growing they could be more accurate and precise with their calendar. These schedules helped them please the Gods.

I'm sorry, its for the sake of the crops



# How Do Years Work?

By [REDACTED]

## Scientific Explanation

Years are caused by Earth's revolution around the Sun. One revolution of the Earth around the Sun takes one year. A year is  $365\frac{1}{4}$  days long. Most calendars show only 365 days. Due to this, every four years there is an extra day added on February 29.



## Aztec Myth

There was once some people called the Aztec. They lived where we now call Mexico. The Aztec wanted to be able to know which days to make sacrifices, have ceremonies, and harvest crops.



This was important because they believed in gods and if they didn't make sacrifices then the rain wouldn't fall. The crops also wouldn't grow because Tlāloc (the rain god) and Huītzilōpōchtli (the god of sacrifice and war) would be mad. They made a calendar called the Xiuhpohualli calendar that was 365 days long! Now they could know which days to make sacrifices, have ceremonies, and harvest crops.

## My Own Myth

Once there were no years but only neverending days. The humans complained to the gods that they did not know when to have ceremonies, make sacrifices, or plant crops. Only Nebulara, the space goddess, listened.



She grabbed Earth and spun it around a big star. Because the earth was now moving, people saw stars and other planets and they decided to use the stars to know when to have ceremonies, make sacrifices, or plant crops. And now every time earth completely spins around the sun, people celebrate Nebulara by decorating everything black, blue, and purple. This story explains why years happen.

# How Do Years Work?

By Ty

## Aztec Myth

The Aztec sun stone represents a special calendar. The sun stone is a shape of a circle and has carvings in it. The Aztec had several ways of keeping time. There were 2 calendars. One had 260 days and one was 365. The calendar told the Aztec people when the best day is to plant crops and it also tells them when to eat and pray to Huitzilopochtli.

The Pleiades also helped the Aztec to track when the sun hits its highest point. This pattern was important because it gave them a way to track the sun movements and time. The Aztec believed that if they didn't sacrifice to Huitzilopochtli he wouldn't have enough blood to hold up the sun. Sacrificing people, rituals like this, and having calendars make them feel like they won't be punished by the gods.



## Scientific Explanation

Every time the earth revolves around the sun it is  $365 \frac{1}{4}$  days, or a year. Every four years the  $\frac{1}{4}$  day adds on so that is why we have leap years. The Earth revolves and experience seasons. Seasons are  $\frac{1}{4}$  of a year, and those seasons help us define what part of the year we are in. Due to the Earth revolving around the Sun we have years.



# How Do Years Work?

By [REDACTED]

## Aztec Culture

There was once Aztec calendars made to understand how the months and years worked according to the Aztec people. The Aztec people wanted everything to be organized, they didn't want their rituals to fall on bad days. While the Aztec children were home schooled, all men had to fight in the military, they were often forced to serve in the military, enslaved or sacrificed to the Aztec gods. They had a constellation called the Pleiades to know when the next month was coming. Then, the Aztec people always worried that their calendar's would be wrong. They had different calendar's, like Tlaloc, the god of rain, and Huiztilipochtili, God of sun and war. Those gods originated in the Aztec land of Mexico. Now, they can have their own calendars they made by hand.

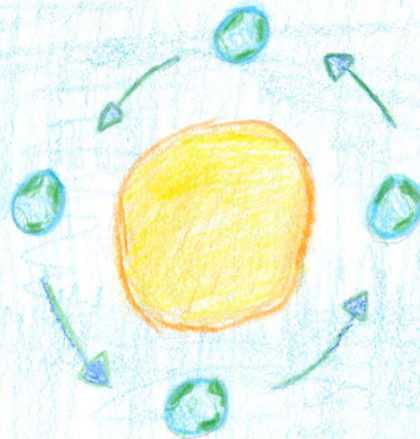


## Luciathon

The god of years, named Luciathon, was part of the Shuper family where the dad was Alinathon and the mom was Kayares. Kayares was the god of the day and night. Alinathon was the god of the seasons. That meant Luciathon was their daughter. She was a normal little girl until she got angry at her mom and dad because they split up, she was heartbroken. So she thought to go out and take a breath. While she was outside she saw this weird plant? It looked funny, fuzzy and blood red from the outside. She brought it inside and cut it open to see blue inside of it. Luciathon decided to eat a small piece. Tasting it made her tongue funny, getting fuzzy. Until... she passed out on the floor! A few hours later she woke up feeling funny, her legs got longer and she wasn't normal. She became the god of years. That meant she was stronger then her parents.

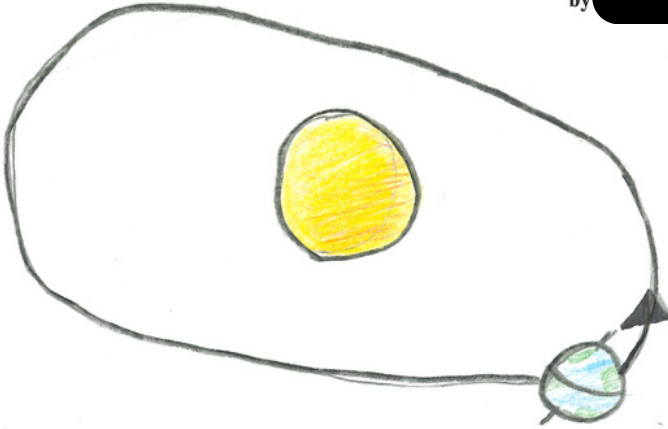
## Scientific Explanation

A year is caused by one revolution around the Sun. One revolution equals one year, Earth makes a revolution in  $365 \frac{1}{4}$  days. The missing quarters add up every four years which makes a leap year. Earth is tilted  $23 \frac{1}{2}$  degrees on its axis. Due to this tilt, there are different amounts of daylight and darkness at the same time of the year. The sunlight strikes different parts of the Earth more directly in some places and less directly in other places. This causes seasons in years. That is why  $365 \frac{1}{4}$  days are one year to us humans.



# How Do Years Work?

by [REDACTED]



## Scientific Explanation

A year is caused by the revolution of the Earth around the Sun. It takes the Earth 365 and  $\frac{1}{4}$  days (365 days 6 hours and 9 minutes) to make a whole revolution around the Sun. In the Gregorian calendar there are only 365 days. To make up for the extra  $\frac{1}{4}$  day, every four years, a day is added to the calendar. This is a leap year. Every 365 days one whole revolution ends, and there is a new year.

## Greek Myth

In Ancient Greece they combined the lunar year of 354 days and the solar year of 365 days. The year started with the first new moon on the summer solstice. The Greek used the calendar not only for counting the years but to count when the lunar and solar eclipse were.

\* = Summer Solstice

Sun	Mon	Tue	Wed	Thurs	Fri	Sat
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20*	21*	22
23	24	25	26	27	28	29
30						

## Aztec Myth

In the Aztec culture they used the sun calendar to count how many years passed by and when to celebrate weddings or special events.

They also used the sun calendar to not lose track of time. The Aztec were scared that if they didn't keep track of their yearly sacrifice that the gods would be upset and not give them rain for their crops. They thought the yearly sacrifice was their only way of finding food and satisfying the gods.

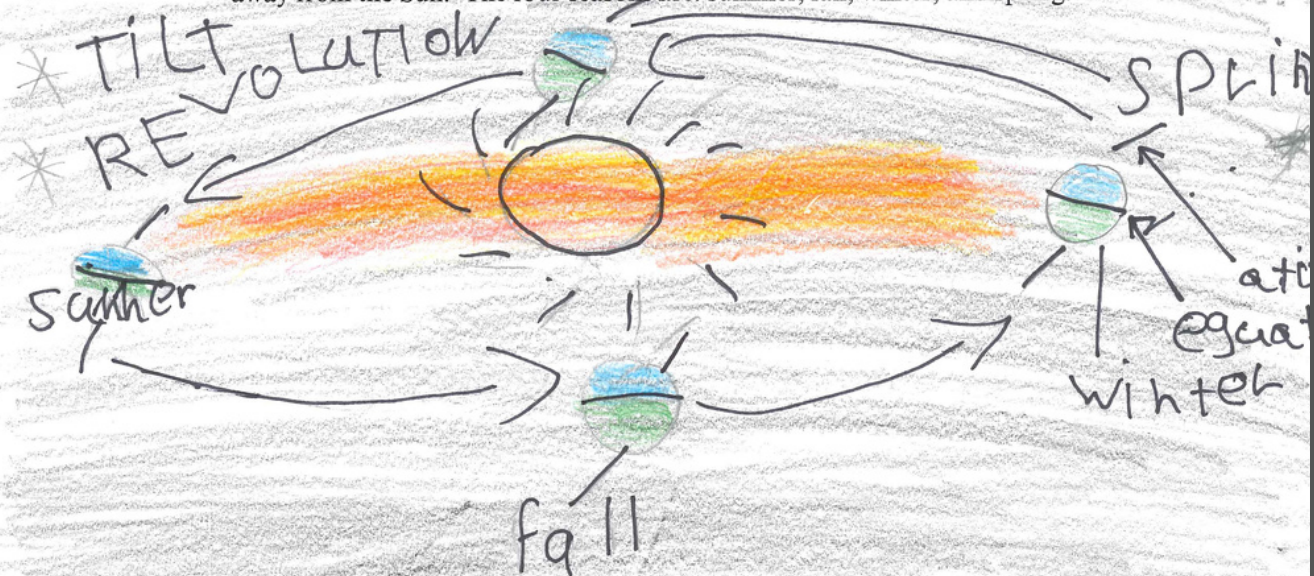


# How Do Seasons Work?

By [REDACTED]

## Scientific Explanation

The seasons are caused by the tilt of the Earth and the revolution of the Earth around the Sun. It is summer when a hemisphere is tilted toward the Sun. It is winter when a hemisphere is tilted away from the Sun. The four seasons are: summer, fall, winter, and spring.



# How Do Seasons Work?

By [REDACTED]

## Scientific Explanation

Seasons are caused by the tilt of Earth on its axis and Earth's revolution around the Sun. Earth is tilted 23.5° on its axis. Due to that, certain hemispheres get different amounts of sunlight. Earth revolves around the Sun, exposing different hemispheres of the Earth to different amounts of Sun. For example, if the Northern Hemisphere is tilted towards the Sun and receives the most sunlight, it is summer in the Northern Hemisphere and winter in the Southern Hemisphere (and vice versa). In certain parts of the year each hemisphere receives equal sunlight. In those parts of the year, we experience fall or spring.

Because of that, we experience changes on Earth in weather, temperature, and exposure to the Sun.



## Greek Myth

Demeter was the daughter of Kronos and Rhea. She was the goddess of agriculture. She had a daughter, Persephone, with her brother, Zeus, the king of the gods. Demeter was very protective over her beloved daughter but Persephone's uncle Hades had fallen in love with her. One day, when Persephone was out picking flowers Hades sprang out of the ground and captured her, bringing her down to his underworld palace. Demeter was very angry about what Hades did and demanded

him bring back Persephone. Hades agreed, but gave Persephone a pomegranate seed that connected her to the underworld forever. After Demeter found out Persephone ate in the underworld she made a deal with Hades. For  $\frac{2}{3}$  of the year she would live with her mother and it would be warm and flowers would grow (spring, early fall, and summer) and for the remaining third it would be cold and snowy (late fall and winter).



## Chinese Myth

There was once an emperor named Yu. Yu worked 24/7 to dam up the damn flood waters in his land. Meanwhile, the Blue Dragon, the largest dragon in the land, heard Yu say, "I want two deep river beds through which the water will flow easily to the eastern side of Heaven". Having nothing better to do, the Blue Dragon decided to help. He appeared next to Yu and, being a dragon with a very big ego, made a grand entrance, squirting geysers of water out of his nostrils and breathing mist. But the Blue Dragon wasn't enough for Yu so he also summoned the Green Snake, the largest snake in the land. He told them, "Each of you will dig a deep ditch, one on either side of the Long White Mountains." The Blue Dragon sprang into action and began digging a deep ditch where water would flow very fast and easily. The Blue Dragon began tiring but kept working. He was not one to give up. Meanwhile, the Green snake lazily rolled around a bit and made a shallow river bed. When they both finished, Emperor Yu came to inspect their work. At first he looked at Blue Dragon's riverbed. "This is perfect!" Emperor Yu said. "I will reward you for your hard work." Then he went to Green Snake's shallow, poorly made riverbed. "Green Snake," said Yu, "I banish you to go to the ocean where the waves will pound you forever for such poor work." The green snake sulked away. "And you, Blue Dragon, I will let you live in the heavens and control the rains." He is now the god of the rains that begin in spring because he worked hard to accomplish what he was told to do.



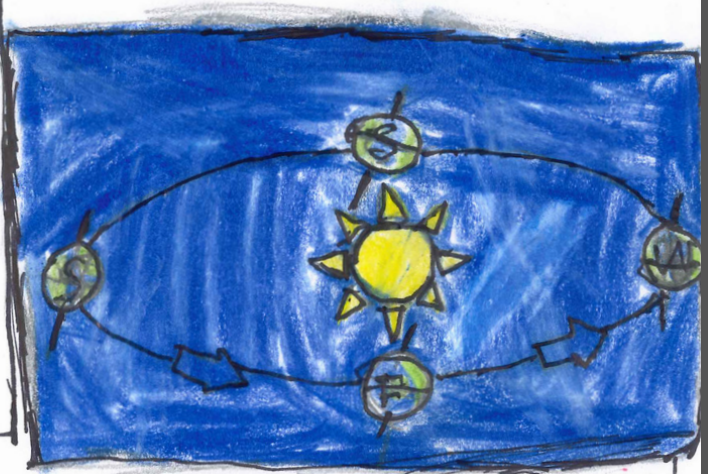
# How Do Seasons Work?

By [REDACTED]

## Scientific Explanation

Seasons are caused by the tilt of Earth's axis and the revolution of Earth around the Sun.

Depending on where Earth is located in its revolution around the Sun, each hemisphere has opposite seasons. For example, if one of the Earth's hemispheres is tilting more directly to the sun, it will be summer. If it is tilting away from the Sun, it will be winter.



## Chinese Myth

A long time ago, there was an Emperor called Yu. He was tired of the flooding that happened. This would kill the plants. The people were hungry. So Emperor Yu asked the Blue dragon and the green snake to build new rivers to stop the flooding. They worked hard, but the green snake gave up first. I'm tired of working. He hissed loudly. "I'm done, King Yu." He added maliciously. And I'm done before the blue Dragon. But Emperor Yu saw that the Green Snake was lying, and punished him. The blue dragon did a great job, so Emperor Yu gave him a gift to control the water and the rivers and the rain.



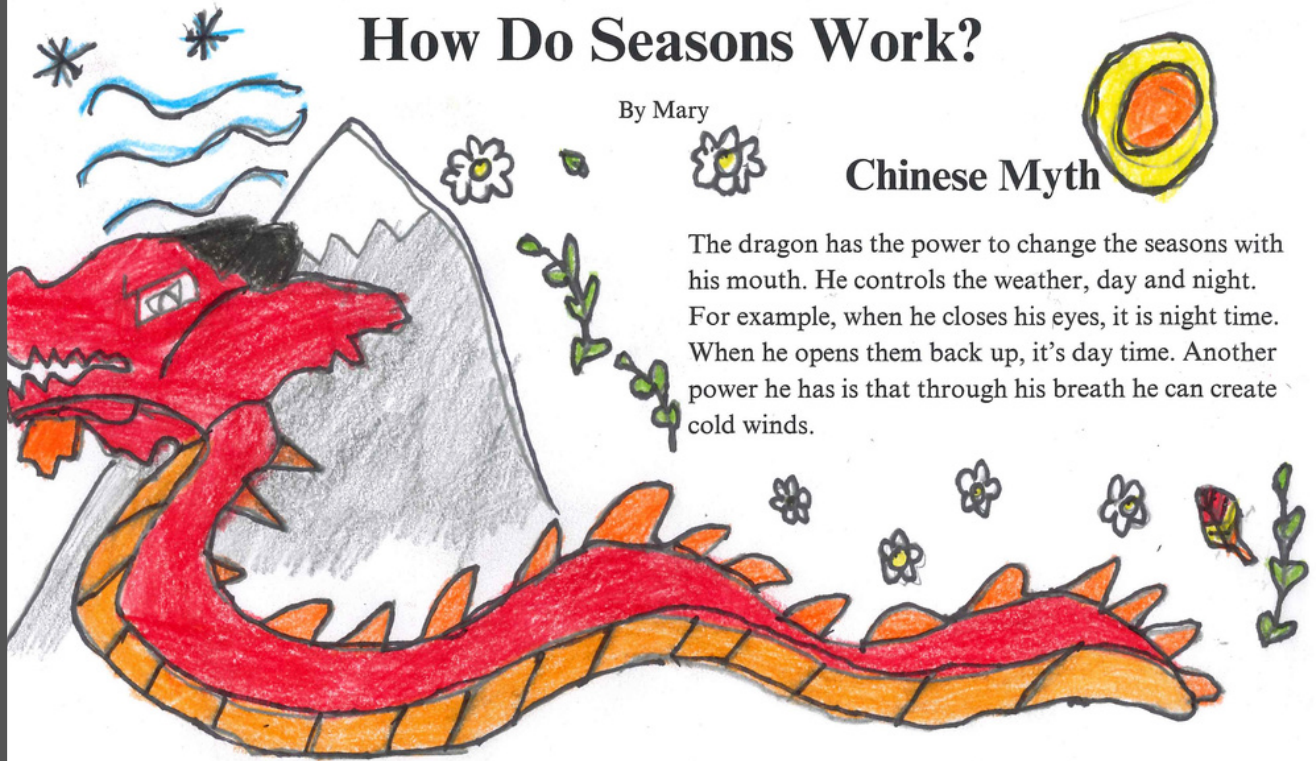
# How Do Seasons Work?

By Mary

## Chinese Myth

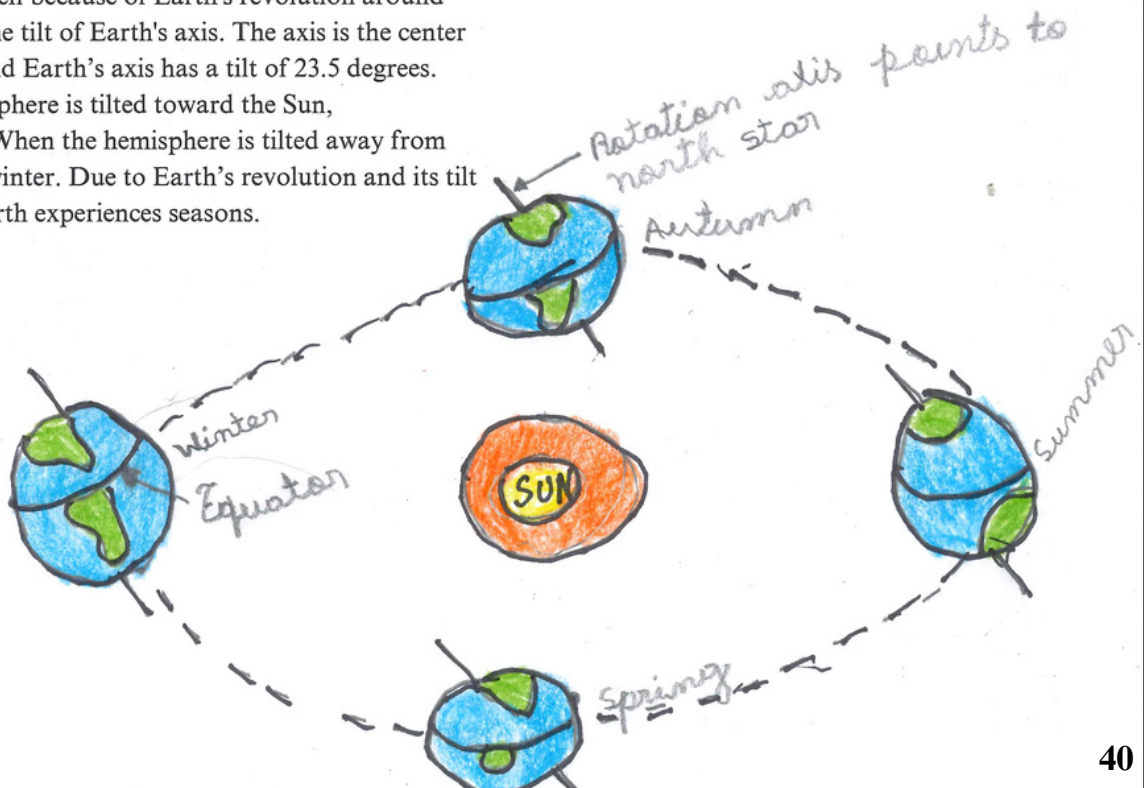


The dragon has the power to change the seasons with his mouth. He controls the weather, day and night. For example, when he closes his eyes, it is night time. When he opens them back up, it's day time. Another power he has is that through his breath he can create cold winds.



## Scientific Explanation

Seasons happen because of Earth's revolution around the Sun and the tilt of Earth's axis. The axis is the center of rotation, and Earth's axis has a tilt of 23.5 degrees. When a hemisphere is tilted toward the Sun, it is summer. When the hemisphere is tilted away from the Sun, it is winter. Due to Earth's revolution and its tilt on its axis, Earth experiences seasons.

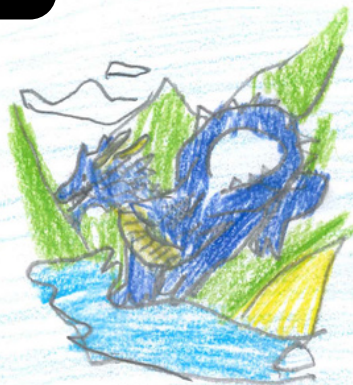


# How Do The Seasons Work?

By [REDACTED]

## China Myth

The Blue Dragon god of spring was summoned by king Yu to dig a river to cool the sun as it rises. The blue Dragon was competing with the green snake whoever dug the best river would go to heaven. The green snake got lazy and sly and said to king Yu: "I'm done." When the blue dragon finishes, King Yu inspects the river. He instructs the green snake to go to the ocean and informs him that he will be battered by waves for eternity. And he congratulates the blue dragon he says you have dug a magnificent river you will go to heaven and control the rains of spring.



## Greek Myth

Demeter and Persephone were always together but Hades, lord of the Underworld wanted to marry Persephone so Zeus told him to take her to the underworld. She was picking flowers and she spotted an unusually beautiful flower. Persephone went to pick it and Hades scooped her up and brought her to the underworld to marry. Meanwhile, Demeter was searching for her and when she found out her daughter was taken to the underworld she almost killed all mortals with a drought. But Hades eventually agreed to let Persephone stay with her mother during early spring all through the summer and with him early fall through winter. This explains the seasons because Persephone comes up from the underworld it is spring/summer and when she goes back is fall/winter



## Scientific Explanation

The seasons happen because of the tilt of Earth's axis and Earth's revolution around the Sun. The tilt of Earth's axis causes the Sun's heat and light to hit one hemisphere more intensely which causes the seasons. When the northern hemisphere is tilted towards the sun, it receives the most sunlight and it is summer. When the southern hemisphere receives the most sunlight, it is winter in the northern hemisphere.



# How Do Seasons Work?

## Scientific Explanation

The Earth revolves around the sun. The tilt of Earth's axis and Earth's revolution causes the seasons on Earth. When there is the most sunlight it is summer for that hemisphere and winter is when there is the least amount of sunlight. There are 4 seasons: summer, fall, winter, spring.



## Namibian Myth

Once upon a time, there was a goddess named Hara ke. She lived in Namibia. She was the water goddess. There was a problem because when its the dry season earth was really dry. The people did not have water and could not grow things. There was no food. She came down from the sky after the season was over and rejuvenated the crops by dancing with her two dragons and then she made water fall from the sky. This helped the people because she was dancing. Then people had water to grow their crops.

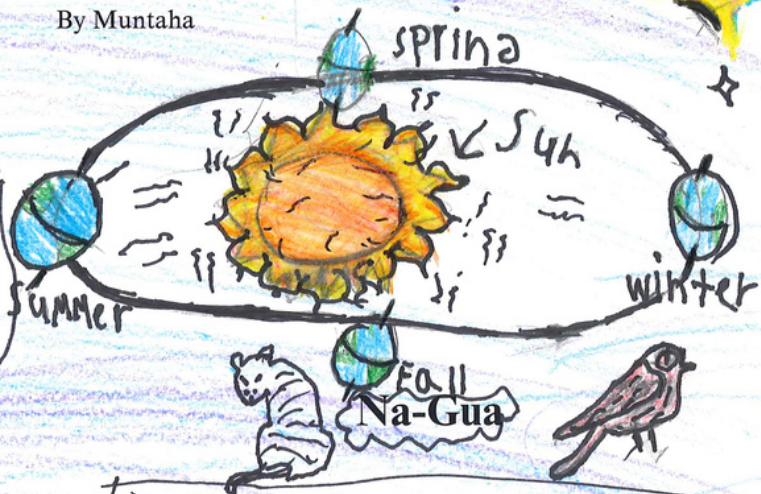
Page author: [REDACTED]

# How Do Seasons Work?

By Muntaha

## Scientific Explanation

Seasons are caused because Earth revolves around the Sun and Earth is tilted. When the northern hemisphere is tilted toward the sun, then the northern hemisphere will have summer and the southern hemisphere will have winter.



In China, they tell a seasonal story about when it all started when a great flood came into China; the sea demon Gong-Gong let water go throughout the earth. Waters destroyed all the land. In the aftermath, Nu-Gua recreated the Earth. She sculpted humans from mud. Specifically, she also restored the seasons, providing balance in the world. Some stories say that Nu-gua helped restore the seasons by assigning the Blue Dragon to Spring, the Red Bird to Summer, the White Tiger to Autumn, and the Black Tortoise to winter.



## Nane Sarma



On the last days of winter when spring is near, in an old house an elderly woman was living alone and every year she would wait for her beloved love, Amu Nowruz to come and bring spring. Every year she goes on her couch waiting for her loved one to come. As the time went by she felt more tired and tired until she finally fell asleep and her loved one came and he brought flowers that represented the spring. She woke up, looked outside and it was spring. When she looked at the flower she knew he came.

# How Do Seasons Work?

By Logan

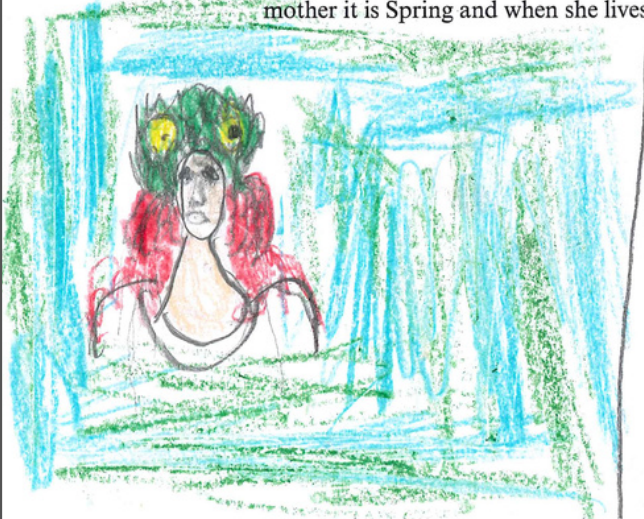
## Chinese Myth

The black tortoise is from China. The people wanted seasons to change the weather patterns. Then the black tortoise woke up. The tortoise helped out the messenger of Xuanwu, the god of the north, which gave powers to the black tortoise and helped winter arrive. The black tortoise walked along the heavens, and brought winter to the grounds.



## Greek Myth

Hades kidnapped Persephone to the Underworld. Demeter made a deal with Hades that she could get Persephone back. She found out that Persephone ate a seed when she was in the Underworld, so she couldn't be allowed back. Demeter & Hades made a plan that part of the year she lives with Demeter and the other half she lives with Hades. When she lives with mother it is Spring and when she lives with Hades underground it is winter.



## Scientific Explanation

Seasons are caused by Earth's revolution around the Sun and Earth's tilt on its axis. When it is summer for the northern hemisphere, it is winter for the southern hemisphere. When a hemisphere is tilted towards the Earth, it is summer; when it is tilted away, it is winter. On the equinox, Earth has the same amount of day and night. Due to the tilt of Earth's axis and Earth's revolution around the sun, the Earth gets seasons.

# How Do Seasons Work?

By Kaynara

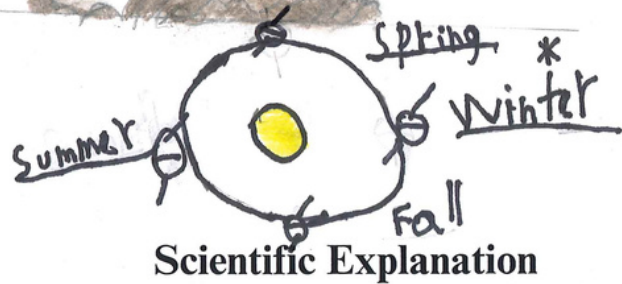
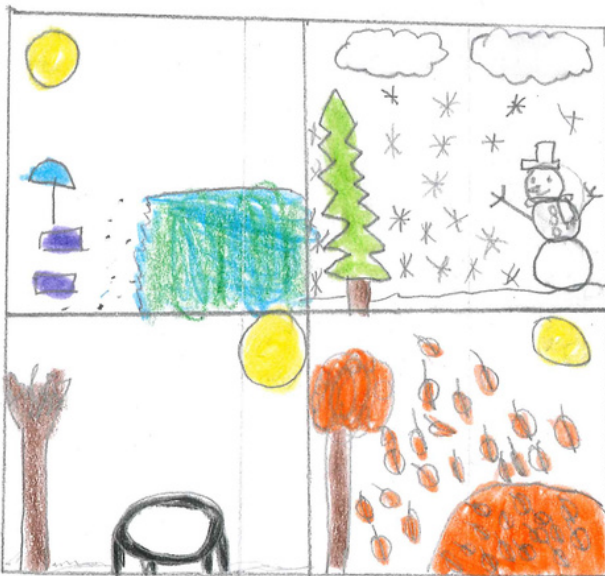
## Greek Myth

Demeter is the daughter of Zeus and Persephone was the daughter of Demeter. Demeter was everybody's favorite because she was the god of spring and brought everything to life. One day Hades took Persephone to the underworld, and when Demeter knew that Persephone was missing she stopped taking care of the crops and with no food all the mortals started to die. Then she started to look for Persephone. All of the Greek Gods knew what happened to Persephone but they didn't tell Demeter anything, until the God of sun Helios told her everything. Demeter told Zeus to let Persephone go but Zeus refused and then he saw that all of the mortals were dying. Zeus and Hades, along with Demeter made a deal to let Persephone go back to the world of the mortals during the spring and go back to the underworld during the winter. Then Persephone could go back home with her mother and grow crops again.



## Chinese Myth

The red bird is a story from Chinese culture. It is a symbol of the sun. The red feathers represent summer because they are related to the sun. When people saw the red bird constellation, they celebrated because in summer the plants grow easier. It also helps the animals cool off.



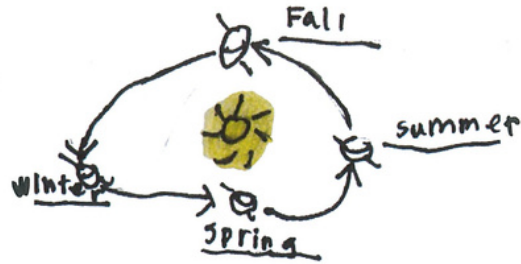
**Scientific Explanation**  
The seasons are caused by the revolution of the Earth around the Sun and the tilt of Earth's axis. Earth has a tilt of 23.5 degrees on its axis. When the northern hemisphere is tilted away from the Sun, then the northern hemisphere has winter. When the northern hemisphere is tilted toward the Sun, then the northern hemisphere has summer. When the northern and southern hemispheres get equal light, it is fall or spring.

# How Do Seasons Work?

By [Redacted]

## Scientific Explanation

The seasons are caused by the Earth's revolution around the Sun and the tilt of Earth's axis. The day with the most hours of daylight is the first day of summer and the day with the most hours of darkness is the first day of winter. There are four seasons: summer, winter, fall, and spring. When the northern hemisphere is tilted towards the Sun and receives the most sunlight, it is summer.



## Chinese Myth

There are four different seasons: summer, winter, fall, and spring. There are also animals for the seasons as well: red bird, the blue dragon, the white tiger, and the black tortoise. The red bird represents summer, the blue dragon represents spring, the black tortoise represents winter, and the white Tiger represents autumn.

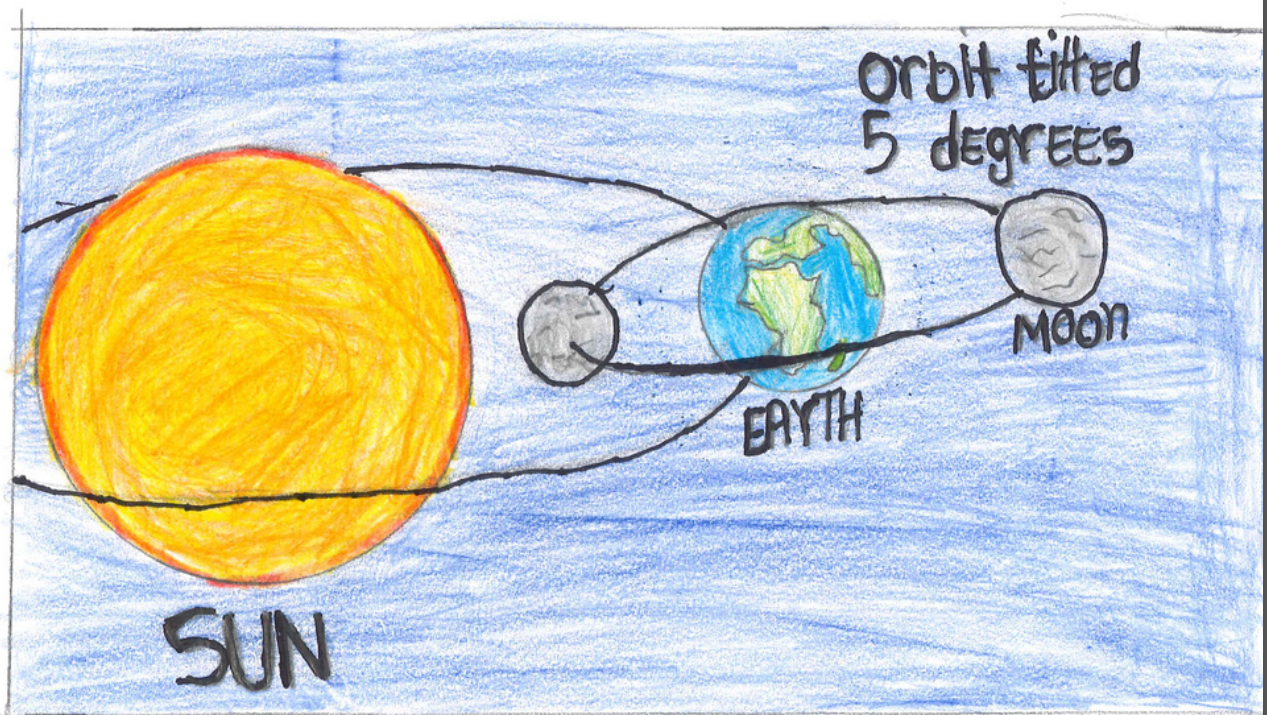


# How Does The Moon Work?

By [REDACTED]

## The Moon

The Moon revolves around the Earth because of gravity. The Earth has a stronger gravitational pull because the Earth is more massive than the Moon. The Moon looks different on different nights because the Moon orbits the Earth and reflects light from the Sun.





# How Does The Moon Work?

By [REDACTED]

## Algerian Myth

There was once a boy who was really sad because he didn't have friends or parents. He wanted to cry. He was so sad. But he couldn't because there were no tears on the earth.

One night when the stars were not so bright. The moon saw how the boy was sad, and then the moon came down to the Earth and the Moon said: "Do not let your tears fall on the ground." Instead, the moon offered help by saying: "let your tears fall to me. I will take them to fill up the moon." And the moon also said: "In future days you will have parents and children, and the whole village will love you." And each single night, when the moon is visible, you can see the eyes on the moon, and the tears that cry out for the boy.



## Scientific Explanation

The Moon revolves around the Earth because the Earth pulls the Moon with its gravity. The mass of the Earth is larger than the Moon's mass. The Earth has a stronger gravitational pull than the Moon because it has a greater mass. Since the Earth has such a strong gravitational pull, it pulls the Moon to orbit the Earth.



# How does The Moon's Revolution Around Earth

## Work?

By [REDACTED]

### Scientific Explanation

The Earth's mass is greater than the Moon's. The greater the mass, the greater the gravitational pull, so the gravitational pull forces the Moon to orbit Earth. Earth is constantly in a "tug-of-war" match with the Moon. Earth "wins" the Moon, and the Moon orbits us as a result of the "match." The Moon pulls back, though! However, the Moon can only move the tides because they are liquid, and therefore easier to move than the whole Earth. Due to this, we experience seeing the Moon in the sky every night and experiencing high/low tides.

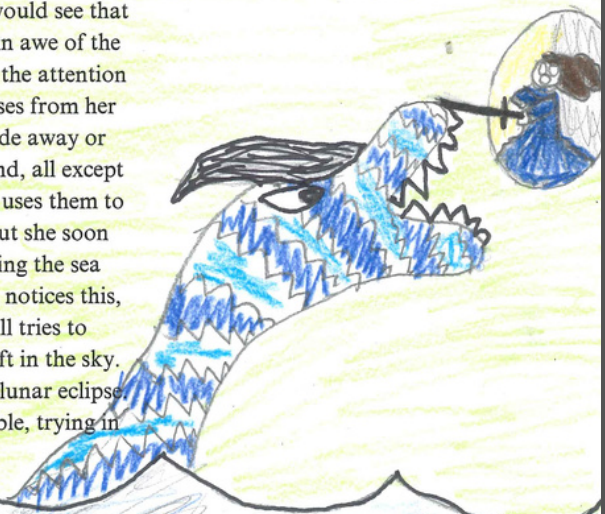


### Greek Myth

Selene, the Moon Titaness of Greek mythology, twin sister to the Sun Titan Helios, owned a magnificent Moon Chariot. She was in charge of making the moon rise every day and keeping it in the center of the sky. One day, the people of ancient Greece found out that Artemis, goddess of the hunt and animals, and sister to Apollo had been born, and began depicting Artemis as the goddess of the Moon. Selene was forgotten. to this day there is no Selene, now there is just Artemis.

### Filipino Myth

If you lived during the age of the seven moons in the Philippines, you would see that all the creatures of the world could not help but stare at the night sky in awe of the moons that grazed it in their beauty. Unfortunately, the moons attract the attention of the evil deity Bakunawa. She wants to possess the moons. So she rises from her watery domain and swallows all of the moons. Most of the moons fade away or disappear. Some try to defend their younger sister Haliya. But in the end, all except for Haliya are devoured. She forms a mask and sword out of light and uses them to fight the Bakunawa. When the fight starts, Haliya is overwhelmed. But she soon fights back by plunging her sword into the heart of Bakunawa, sending the sea serpent falling back into the ocean in defeat. The creator god Kanloan notices this, and exiles Bakunawa back to her lair, but sometimes Bakunawa still tries to forcefully rise up from the ocean and devour the one moon that was left in the sky. Usually, Haliya is able to defend herself, but when she can't it causes a lunar eclipse. If that happens, it is Filipino tradition to make as much noise as possible, trying in vain to make Bakunawa release the moon.



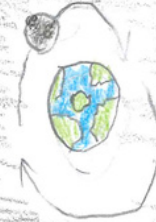
# How Does The Moon Work?

By [REDACTED]

## Science Explanation

A moon is a natural satellite that orbits a planet. Earth's Moon is made out of gas, rock, and dust. The reason a moon orbits a planet is because of its mass.

One reason why the Moon orbits Earth is because Earth's mass is 81 times bigger than the Moon's mass, causing the Moon to orbit the Earth. Another reason why the Moon orbits Earth is because Earth has a stronger gravitational force.



## Aztec Myth

Earth once did not have a sun. The Aztec gods tried four times to get a sun in the solar system, but every time they failed. One of the gods had an idea to make a fire and have one of the gods jump into the fire. A god named Tecuciztecatl volunteered to do it. Therefore the gods built a huge fire and started to dance and drum for four days and nights straight. Finally, it was time for Tecuciztecatl to jump into the fire. Tecuciztecatl ran and stopped at the last second. Therefore Nanahuatzin Volunteered and Jumped into the fire becoming the sun, Tecuciztecatl was ashamed, so Tecuciztecatl jumped in and now there were two suns. The gods thought that Tecuciztecatl was not worthy so they launched a rabbit onto the second sun and the second sun's light started to get dimmer turning the second sun into the moon.



## Greek Myth

There once was a goddess named Selene, who was the goddess of the moon.

Selene had two siblings, Helios, the god of the sun, and Eos, the god of dawn. She would ride her chariot across the moon every night. Selene was known for her "secret lovers"; One of them was Zeus, the god of the gods.

Another was Endymion, who was also in love with Selene. She and Endymion were deeply in love with each other and were a great couple. Selene gifted him with forever sleep so they could be together, no matter what. People of Greece never worshiped Selene because she was not as known as the other gods like Zeus or Athena, but there were some secret rituals for Selene. No matter whether she gets worshiped or not, Selene still rides her chariot across the sky every single night.



# How Does The Moon Work?

By Sofia

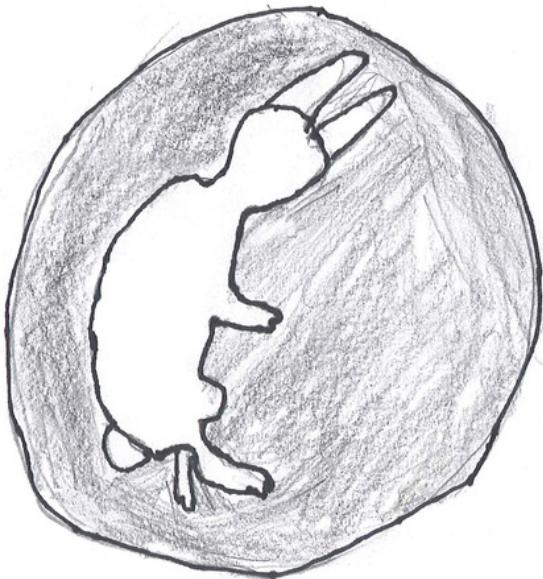
## Scientific Explanation

The Moon revolves around the Earth because of the Earth's strong gravitational pull. The Earth has more mass than the Moon. The gravitational force between two objects depends on distance and mass. Here on Earth, we see the new moon, the full moon, and other lunar phases.



## Aztec Myth

The Aztec people have a story about how the sun was created. In the story, the Gods say- lets build a fire! When somebody jumps in they will become a sun. The first to raise his hand was Tecuiztecatl. He was very proud. The gods wanted back-up, and asked Nanahautzin. When they built the fire, Tecuiztecatl went and said I am scared. He does not jump into the fire. Instead it was Nanahautzin. He became the sun, and then Tecuiztecatl jumped in. The Gods said this was unfair. So they threw a rabbit to make it less bright.



# How Does The Moon Work?

by [REDACTED]

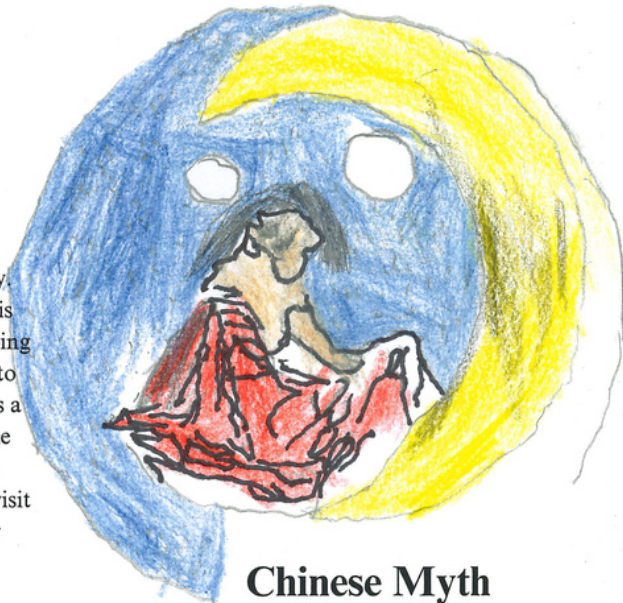


## Scientific Explanation

Moons orbit planets because of gravity. The Moon's mass is less than the Earth's mass. The Earth's mass creates a strong gravitational pull, pulling the Moon to orbit Earth. The Moon takes 28 days to revolve around the Earth. Due to the Moon's orbit, all the phases of the Moon are seen from Earth in 28 days.

## Greek Myth

Selene is the goddess of the moon. She has a really big family. Her brothers are the god of other planets. Her whole family is gods and goddesses. At night Selene would always visit a sleeping boy. She loved him, but he was always sleeping. She wanted to marry him but couldn't because she was a goddess and he was a human. She used magic to make him sleep forever so that she could always be with him. Every night she would visit him because that's the only time she could visit him. She couldn't visit him during the daytime because she is the moon. This story explains the moon.



## Chinese Myth

Once there was a mean emperor who wanted to kill everybody and take their powers to live forever. His wife was not happy about it. He wanted to take over the land. He also wanted to steal potion to become powerful. The evil emperor's wife accidentally drank the potion and turned into a frog. As a frog, she jumped up to the moon and sat down by a rabbit. Now, when people look at the moon they see the frog and rabbit sitting next to each other.



# How Does The Moon Work?

By [REDACTED]

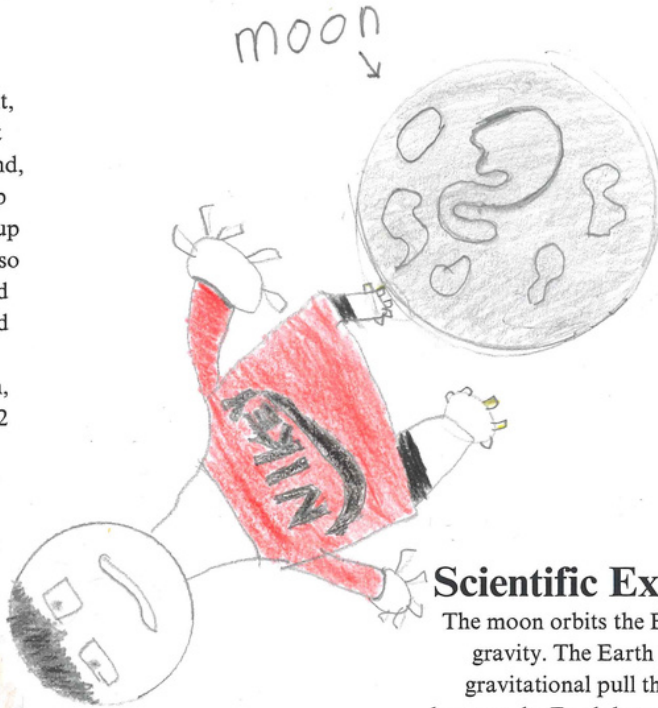
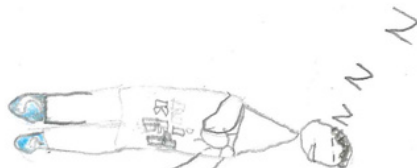
## Aztec Moon Myth

The Aztec people wanted infinite sunlight, so they threw a four-day and four-night party to try and start the sun and in the end, their plan was for a god to run and jump into the fire. But when Tecuciztecatl ran up to the fire he was too scared and paused, so it was Nanahuatzin's turn and he jumped into the fire with no second thoughts and became the sun. After seeing that, Tecuciztecatl ran into the fire, jumped in, and became the sun. So now there were 2 suns, but one of the gods said that Tecuciztecatl was scared and only after seeing Nanahuatzin became the sun he jumped in, so the god threw a bunny at Tecuciztecatl who was the sun and Tecuciztecatl became the moon.



## Greek Moon Myth

Selene is the goddess of the moon and in her myth, she has a crush on a mortal whom she can not marry or fall in love with because of her status as a goddess, so she begs Zeus to put him in an eternal sleep where he does not die or grow old. After Zeus does that, Selene can watch him sleep and be happy. This is the mythological story about how the Greek people explain the moon.



## Scientific Explanation

The moon orbits the Earth because of gravity. The Earth has a greater gravitational pull than the moon, because the Earth has greater mass than the moon.

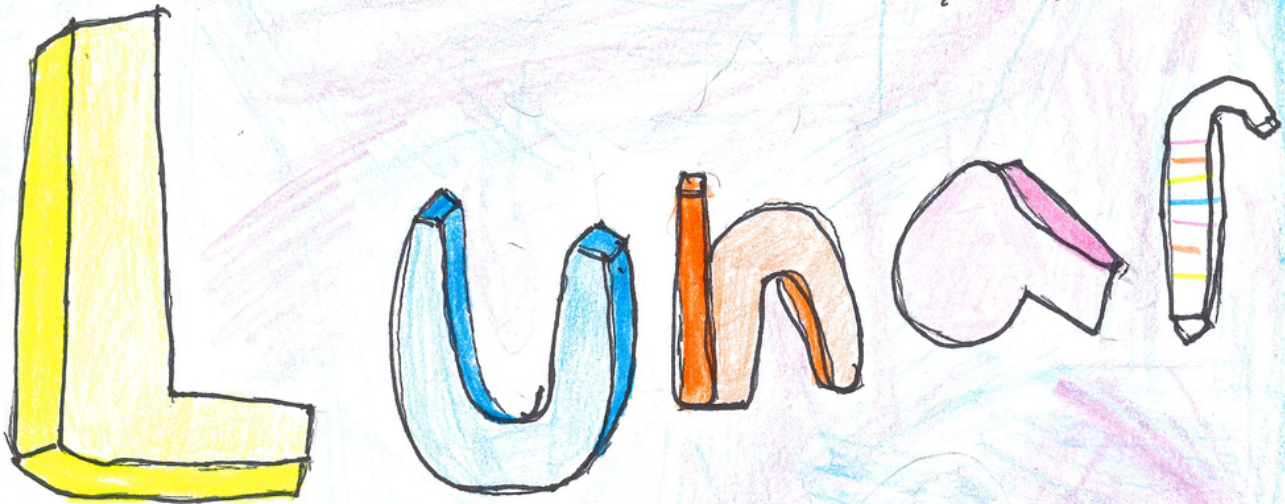


# How Do Lunar Phases Work?

By [REDACTED]

## Science Explanation

The lunar phases change when the moon revolves around the Earth and the sunlight hits an area of the Moon. The phases of the Moon are: new moon, waxing crescent, first quarter, waxing gibbous, full moon, waning gibbous, last quarter, and waning crescent. It takes 28 days from one full moon to the next, so basically a month.



## Tagalog Myth

The Tagalog people believed that there were seven moons and there were two quarter moons, a half moon, a new moon and a full moon. Each lunar phase had a person to represent it. Haliya was a moon. She was the twin of Bulan and she saw her sisters and brothers get devoured by bakunawa right in front of her, Haliya was sad every time her siblings got devoured. Bakunawa is a monster of the ocean. One day the Bakunawa Confronted her.



# How Do Lunar Phases Work?

## My Myth

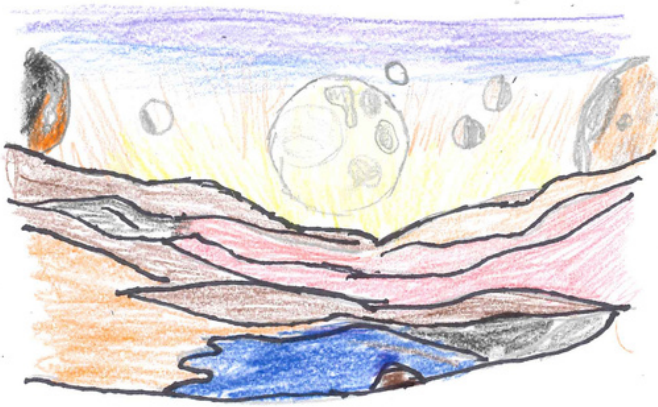
Each night when I lay in my bed and look out the window at the sky the moon is always a different shape.

I wonder why it changes shape each night?

The moon changes shape because the sun rises and the moon rotates just like each day I rise up from my bed like the moon.



In the ancient Tagalog culture there was gods for all the lunar phases. Libulan the full moon, Subang the new moon, Bulan the waxing crescent, Haliya both of the quarter moons, Mayari the waxing gibbous, Banlig the waning gibbous and Banolor the waning crescent. The moon gods wanted to keep the Bakunawa from eating the moons. When one day the bakunawa rose up into the night sky and started to munch on all of the moons then there were three moons left the twin moons banolor and banilig who were also munched up by the bakunawa. So Haliya was forced to fight back. She captured star dust and forged a sword and a helmet and defended her self.



## Scientific Explanation

The Moon's light comes from the sun. The lunar phases are caused by the position of the Moon in its revolution around the Earth. The Moon does not change shape it just reflects different amounts of the Sun's light. The revolution of the Moon takes 28 days and the rotation takes 28 days, as well. That is why we see the same side of the moon each night. And that's why we see different phases too.





# How Do Lunar Phases Work?

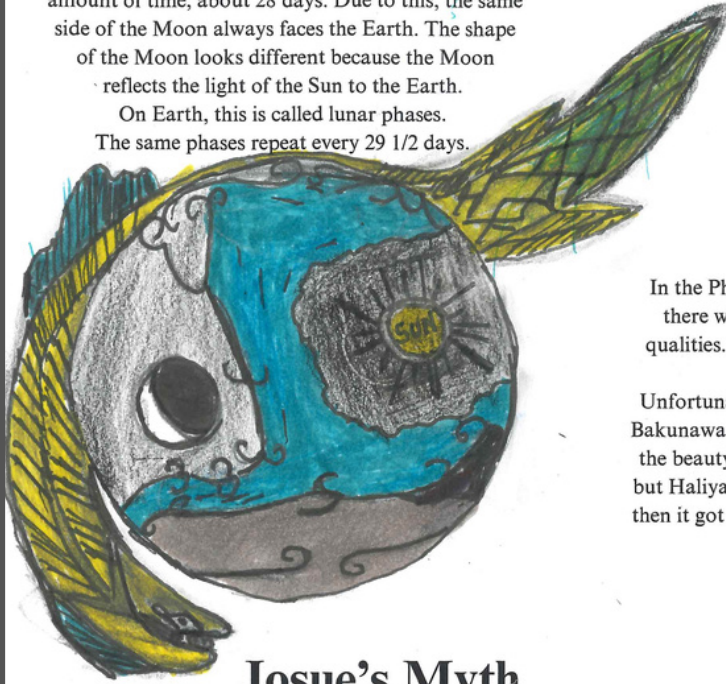
By [REDACTED]

## Scientific Explanation

The moon rotates on its axis and revolves around Earth.

One rotation and one revolution take the same amount of time, about 28 days. Due to this, the same side of the Moon always faces the Earth. The shape of the Moon looks different because the Moon reflects the light of the Sun to the Earth.

On Earth, this is called lunar phases. The same phases repeat every 29 1/2 days.



## Josue's Myth

There were once seven gods that control each of the 7 moons. Their names are Pyronis, Astridara,

Morosys, Lyssara, Zephyrusis, Astrionis, Althion, and each one of the 7 gods controls one Lunar phase.

Lassara, is the full moon.

Morosys is the first quarter.

Dyronis is the last quarter.

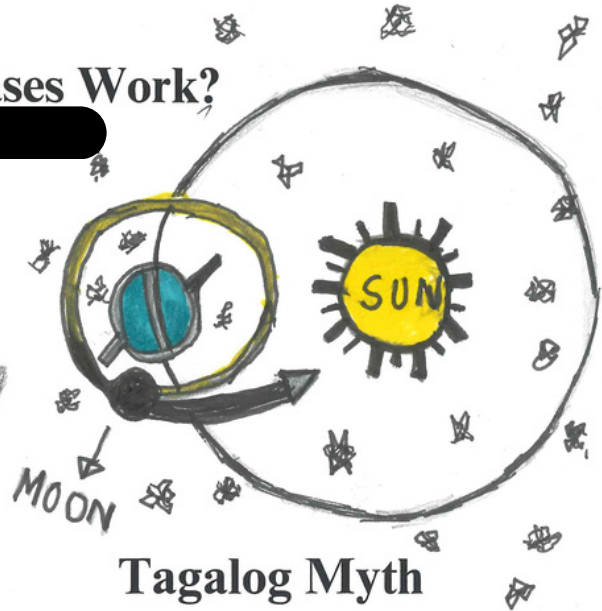
Asthronis is the waning crescent.

Zephyrusis is the waxing gibbous.

Althion is the waxing crescent.

Astridara is the new moon.

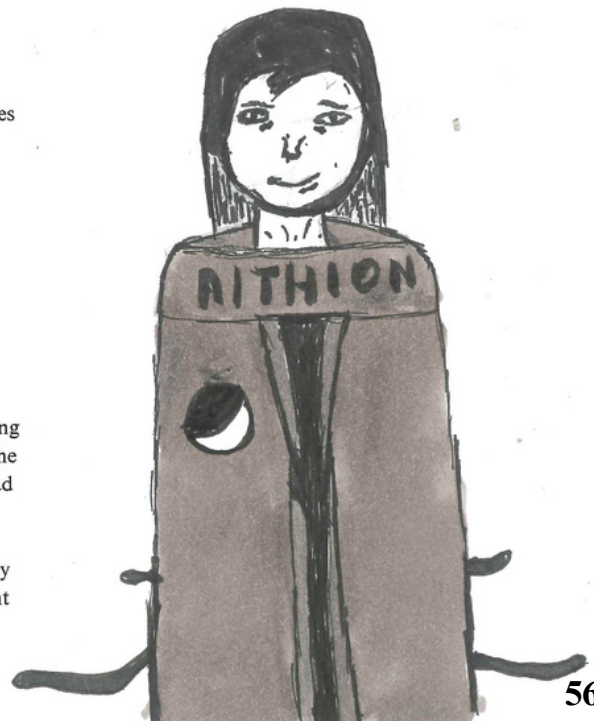
They all lived in a palace but there was another palace that was their meeting place. There, they could meet and talk about who would be the moon in the sky. After some years they got in a fight. They were fighting about who had more power and who was their king. They didn't go to the big palace anymore during their fight which meant the world went through a dark period. They each build their own palace and agreed each month that they would take turns going out and enjoying the fresh air, lighting up the night sky.



## Tagalog Myth

In the Philippines, the Tagalog people have a story about a time when there were seven moons. Each lunar phase had a name and specific qualities. The moons names were Subang, Bulan, Haliya, Mayari, and Libulan, Banlig, Banolor.

Unfortunately, the moon's light attracted the eyes of the evil Bakunawa. Bakunawa was able to turn into a giant serpent. One night Bakunawa saw the beauty of the moons. went to possess them by feasting on the moons but Haliya was the last one alive. Haliya was trying to fight back but lost, then it got dark, the moon was gone and the Tagalog people tried to free the moon from the big serpent.



# How Do Lunar Phases Work?

by Anna

- New Moon: 
- Subang
- Waxing Crescent: 
- Bulan
- Quarter Moons: 
- Hayiya
- Waxing Gibbous: 
- Mayari
- Full Moon: 
- Libulan
- Waning Gibbous: 
- Banlig
- Waning Crescent: Banolor 



## Tagalog Myth

All the creatures of the world were in awe of the moon because of its beauty. Deities would descend down to Earth and play in bodies of water such as Mayari who saw a man that was hurting himself because of shame. Mayari came and healed the man and then she fell in love with the man and they lived happily together, forever. One day a sea serpent named Bakunawa came to devour the seven Moons. The Bakunawa wanted to devour the seven Moons and the seven Moons wanted not to get devoured. When the Bakunawa came to devour the seven Moons, the Bakunawa ate three of the Moons. Libulan was so nervous he hid in the darkest part of the world. The twins Banolor and Banilig shielded their younger sister Haliya, after trying to save Haliya they were devoured too. Haliya in her last hope for life, she formed a mask and a sword, and destroyed Bakunawa. Bakunawa and Haylia became sworn enemies from then on.



Where this story came from



## Angonesian Myth

Once there was a princess named Cadence who lived in Angonesia. She was having a weird dream that told her to ask Clawdia: tigress, lord of the universe to slowly make the Moon darker. So Cadence went to the end of the Earth and asked Clawdia to slowly make the Moon darker. Clawdia does it because she thinks it is a good idea then Cadence tries to ask to make it light again. But then Clawdia gets so mad at Cadence for asking too much so she punishes Cadence. So the theme is that you should never ask too much.

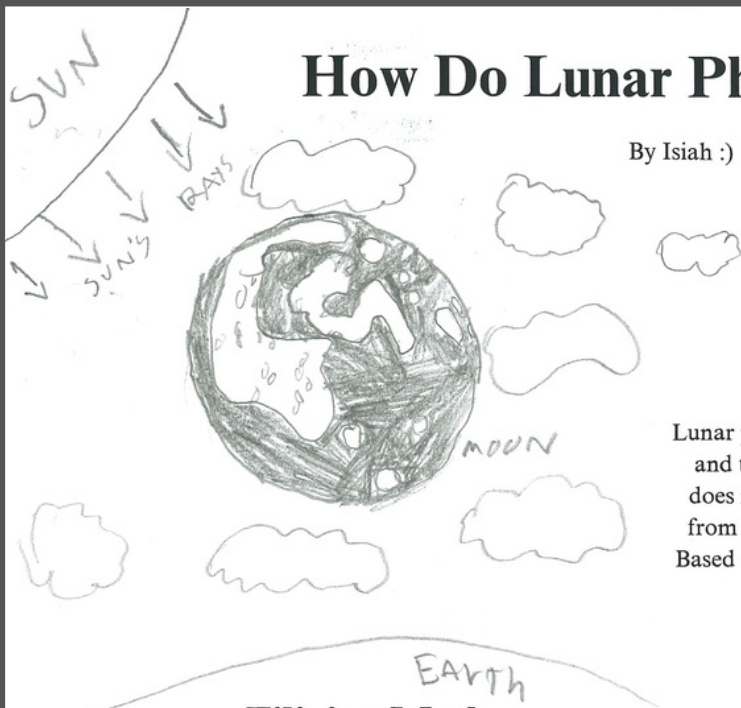


## Scientific Explanation

The lunar phases are caused by the Moon's revolution around the Earth and how the Sun's light hits the Moon. The Moon does not make its own light. The Moon's light comes from the reflection of sunlight on the Moon. The Sun's light hits the Moon as it is going around the Earth. On Earth, we see the Moon disappear and come back, but if you look down on Earth for about a month you will see the Sun's light reflecting on the Moon. We see different amounts of light due to the angle from which we see the Moon.

# How Do Lunar Phases Work?

By Isiah :)

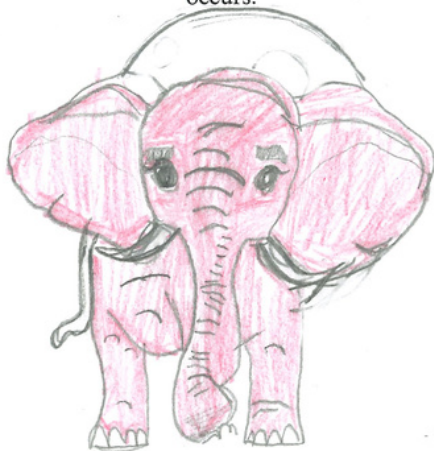
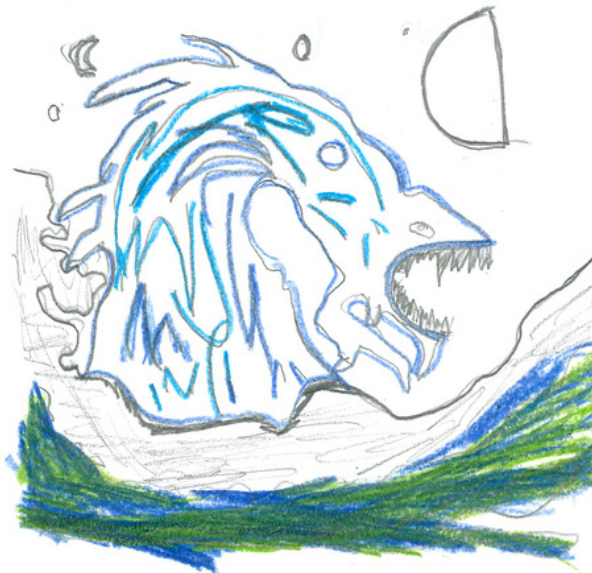


## Scientific Explanation

Lunar phases are caused by the Sun's rays on the Moon and the Moon's orbit around the Earth. The Moon does not have its own light. The Moon's light comes from the Sun. The Moon revolves around the Earth. Based on the Sun's rays on the Moon as it revolves, the Moon looks different from Earth.

## Filipino Myth

In Filipino culture, there are seven characters/siblings/moons that represent the seven lunar phases: Subang, Bullan, Haliya, Banolor, Bangling, Mayari, and Libulan. They battle a sea monster named Bakunawa who tries to eat them and in the end, they lose the battle. They all are eaten except the youngest moon, Haliya lives and is the only moon left to fight off the sea monster. She captures starlight and forges a mask and a sword. Haliya fights off the sea monster Bakunawa. Bakunawa is sacred so he flees. Later Kanlaon, the creator of all, sees the monster and punishes him sending him to the deepest part of the sea. Every so often Bakunawa comes back and eats Haliya and when that happens the lunar eclipse occurs.



## Greek Myth

Author: Isiah Olson

Dawa is the Greek god of lunar phases.

Every night he gets more tired and more tired so his eyes start to close but since he is so big it takes almost 1 month to do so. 1 day he falls asleep and a new moon occurs. He works so hard to keep his eyes open after that and sometimes you can see him during the day.

# How Do Lunar Eclipses Happen?

By [REDACTED]



## Scientific Explanation

A lunar eclipse is caused by the Moon's revolution around the Earth. The Moon's revolution is at a tilt, so we do not have a lunar eclipse every moon cycle. The lunar eclipse happens when the Sun's light is covered by the Earth, and the Earth's shadow is cast on the Moon. The Moon looks reddish because the Earth's atmosphere only allows red light to come through. During a lunar eclipse, people on Earth see a red moon because of the light coming through the atmosphere and the shadow that is cast on the Moon from the Earth.

## Social Studies Myth

The Inca people, who lived in the Andes Mountains, believed in a moon goddess named Mama Quilla. She protected her people, and her people relied on her light during the night. But one day the Moon turned a reddish orange and the Inca people were worried for Mama Quilla.

Then they noticed a puma who was attacking her. The Inca people made loud noises and threw rocks at the moon to scare away the puma. After a while her light came back and everyone celebrated for many days.



## Addie Myth

Addette Dooku was once a powerful goddess who lived under the sea. The Masajavian people praised her day and night for protection over their coral reef that their people lived in. The Masajavian people highly relied on the moon to grow their coral reef. But two times every year the moon gets attacked by the Zerqua people who are the Masajavian people's enemies. The Zerqua people have an evil leader named Zydrona who went to the moon to plant a poisonous plant called Bupa. As the poison slowly seeps into the Moon the Moon gets redder and redder until the Moon is fully red. The plant is so poisonous that even its light is deadly, but only to plants, and because of this their coral reef starts to die. That is when Addette Dooku uses her magic powers to fly to the moon. She brings a magical healing plant that reverses the Bupa's poison and kills the Bupa entirely. The Zerqua people get so enraged that they give up. When Addette Dooku came back, the Masajavian people celebrated until the Zerqua people attacked again. THE END.



# How Do Lunar Eclipses Work?

By [REDACTED]

## Scientific Explanation

A lunar eclipse is caused by the Moon's revolution around the Earth.

Lunar eclipses happen when the Moon travels into the Earth's shadow. during a lunar eclipse, the moon can appear to have a reddish tint (a blood moon). A lunar eclipse only happens every 2 1/2 years and it has to be on a full moon, so keep your eyes peeled for the blood moon.



## Tagalog Myth

There were once seven gods: Subang, Bulan, Haliya, Banalor, Banlig, Mayari, and Libulan. They each represent one of the lunar phases. Bakunawa the evil sea serpent was attracted to the light of the moons. Captivated by their beauty, she wanted to possess them so Bakunawa rose from the water to devour the moons. Bakunawa killed Libulan, then Banalor and Banilig, and finally there was only Haliya left. Haliya was forced to fight back. Bakunawa and Haliya fight often but Haliya usually wins. In rare instances, she loses the battle and gets devoured. This is when a lunar eclipse occurs. Whenever the moon turns blood red, it is a Filipino tradition to make as much noise as possible in an attempt to scare the Bakunawa into releasing the moon.



## Eloise's Myth

Once in the Faem realm of Alandro, there was a beautiful goddess named Felorian. She drew the eyes of many people on Earth, especially Anario. He was young and fair and very desired by Brickasteena, the ugly troll. One day Felorian noticed Anario looking up at her and at that moment she fell in love. They married soon after and had Eiose, the first goddess of the stars. Eiose, just like her mother, attracted the eyes of many, not all good. Pherelio, the evil goddess of the underworld, found Eiose very intriguing. she watched her closely and then soon fell in love, she wanted Eiose to be her daughter so badly she rose to the heavens and killed Felorian. The people on Earth saw the moon go red and full of fright they hid in their houses. Eiose saw her mother fall and though she was full of grief she took the place as the moon. So the story continues, Eiose fell in love, had children, and then died just for her child to replace her.

# How Do Lunar Eclipses Work?

By [REDACTED]

## Inca Myth

The Inca people's moon goddess, Mama Quilla, loves her people very much, and her people love her. They would do anything for her. One night though, the Inca people saw something strange. Mama Quilla was darkening, becoming orange... then blood red. Her people went into panic even more when they saw a puma attacking her. They yelled and threw weapons and rocks and made loud noise, as loud as they could, until Mama Quilla's light became bright and white and all the red darkness was gone along with the puma. Mama Quilla was safe.



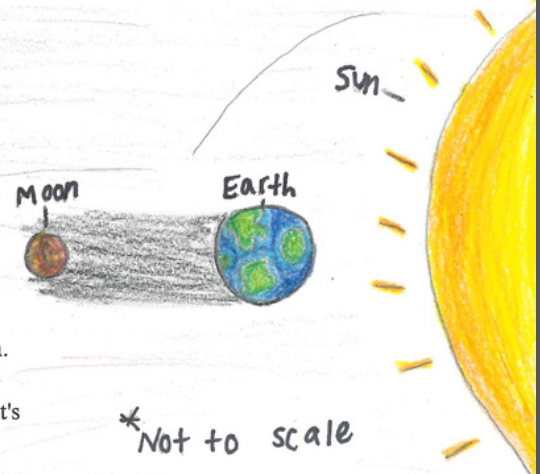
## My Myth

In the city of Atlantis, there is a moon goddess with unimaginable powers, named Annithor. She comes out each night, and when she does, her people would find comfort in her looking over them, and they could finally go to sleep. But around 2-5 times a year, the evil demon Marrin will store up enough magic to escape from her prison and attack Annithor, turning the Moon the color of her blood. But despite a vicious battle Annithor always captures Marrin and puts her back in her prison, turning the Moon bright white again.



## Scientific Explanation

Lunar eclipses are caused by the Moon's revolution around the Earth. Sometimes, about 2-5 times a year, the Sun, Moon, and the Earth will align. When this happens, Earth's shadow will cover up the light from the Sun, making it so the Moon looks dark and blood orange from the places where it's night on Earth.



\*Not to scale

# How Do Lunar Eclipses Work ?

★ By: [REDACTED] ★

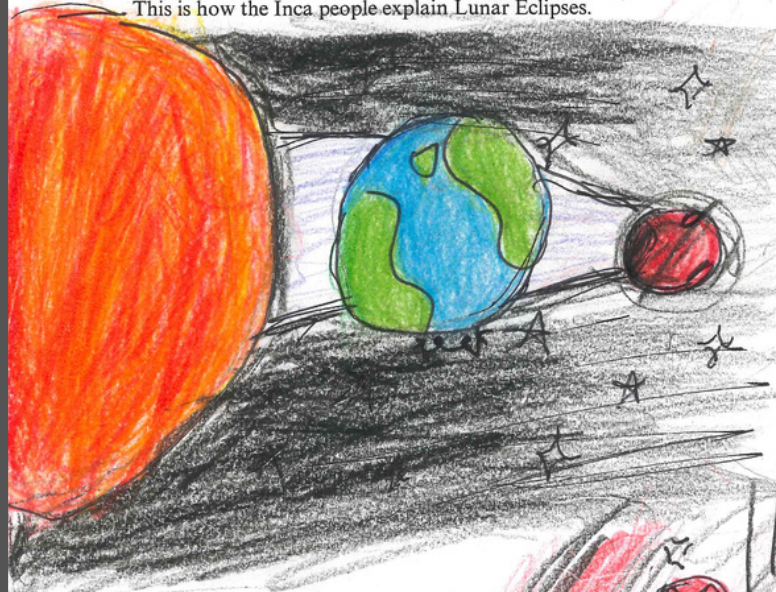
## Inca Myth

There was once a moon goddess named Mama Quilla, she ruled the Inca Empire and its people and she was also known as the sister and wife of Inti the Sun Goddess. She helped her people and took care of them. She also lit up the night sky with her bright moon for everyone to see. The Inca people wanted to protect Mama Quilla because they thought if she gets attacked or she dies and the moon goes down with her and they might live in darkness forever. One night the Inca people noticed that the moon started to fade, the light wasn't shining bright, and then the moon turned orange, and then a blood red ! The Inca people were terrified and then one of them saw a puma/mountain lion and freaked out even more. Then they started to fight by throwing axes and spears to protect Mama Quilla. Then the red started to slowly fade into an orange, then a gray bright moon. The Inca people were relieved that they had saved their beloved moon goddess. Now, the Inca people celebrate their save on Mama Quilla every lunar eclipse showing how powerful they are. This is how the Inca people explain Lunar Eclipses.



## Science

A lunar eclipse happens when the Sun, Earth, and Moon line up in a certain position that causes the Moon to appear red from Earth. The reason why this happens is because the Moon's orbit is tilted by an angle behind the Earth's shadow which causes the lunar eclipse. If you are wondering why the Moon is red, the reason is that when the Sun's light reflects on the Earth, the Earth takes all the blue light which leaves the red light on the Moon.



## My Myth

One night Hades got extremely mad at us humans which caused the moon to turn red to represent God's anger. The reason he is mad at us is because we might have messed with him. The blood red moon will haunt the sky until Hades takes a mortal to his realm. We should never mess with the God of the underworld.



# How Does a Eclipse Work?

By [REDACTED]

## Scientific Explanation

A lunar eclipse happens when the Sun, Earth, and Moon line up perfectly and the Earth casts a shadow on the moon. What we see on Earth is a blood-orange reddish moon, but be quick the Moon goes away fast. And how a solar eclipse works when, the Sun, Moon, and Earth line up and the Moon casts a shadow on the Earth and all the people in the shadow will be able to see the total solar eclipse. But you need to be really quick about it because it goes away quicker than the lunar eclipse.

## Norse Myth of Wolves, Gods, and Goddesses



In Norse mythology, there are two gods and goddesses that control the sun and moon. Sol is the sun goddess and Mani is the moon god. There was an evil wolf whose name was Fenrir. He had two children wolves named Skoll and Hati. Sol has a chariot with two horses. Her job is to be the sun, whereas Mani's job is to be the moon. During a solar eclipse, Skoll tries to chase Sol, and Hati is chasing Mani. The wolves are chasing the gods and goddesses to try to eat them.

The solar eclipse will be black because Skoll was successful at catching them, and the lunar eclipse will be red because Hati was also successful.

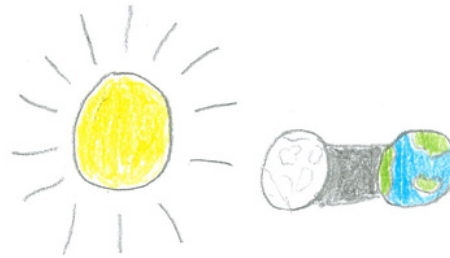


# How Do Eclipses Work?

By [REDACTED]

## Scientific Explanation

A solar eclipse happens when the Moon gets in the way of the Sun. This is caused by the revolution of the Moon around the Earth. During a solar eclipse, the Sun, the Moon, and the Earth line up. This happens every 375 years in the same spot on Earth. Due to the Moon getting in front of the Sun, there is darkness in one area of the Earth in the daytime.



## Incan Myth

Every night the moon was visible high in the sky. In Incan culture, Mama Quilla represented the moon.

Whispers spread across the land as the Inca people what could be happening to there moon goddess. As they looked up into the heavens, the moon turned into at orange, then a bright red. Then the Inca people thought that Mama Quilla was getting attacked by the jaguar. They threw rocks at the moon to save Mama Quilla

The Inca people gathered around trying to protect Mama Quilla by grabbing weapons and rocks and threw them at the moon, it created loud noises. The Inca people kept on throwing rocks until the red weakened to an orange, then softened to a gray, then the night ended, Mama Quilla was safe



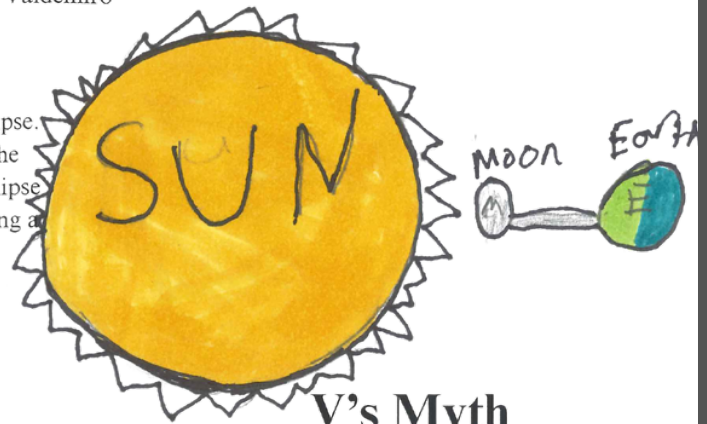
# How Do Solar Eclipses Work?

By Valdemiro

## Scientific Explanation

The Moon's revolution around Earth causes the solar eclipse.

A solar eclipse happens when the Sun, the Moon, and the Earth line up. This occurs during a new moon. A solar eclipse happens every 375 years on the same spot on Earth. During a solar eclipse, it gets dark during the day.



## V's Myth

One day there was a blue boy and the boy was walking to his house and he saw a moon and a sun and an earth. The moon and the earth were pushing the moon and the moon was going away so we could see the sun. The earth was pushing the moon away because we did not have any light.

## Chinese Myth

Pangu was formed from the crazy forces balancing out in the egg. Pangu didn't balance out the universe, then it would still be empty darkness. Pangu didn't really like being in the egg, but all he could do was sleep. Still, he tried his best: he rolled around, he tried to kick, he tried to punch, he tried to use his big boy muscles, and finally, he tried to use his weapon, an axe. This only made him more tired, and he fell asleep and died. After he died his skin started deforming and reshaping into what we now know as soil. The body reformed into Earth.



# How do LIGHTNING and THUNDER work?

## Yoruba Myth

In the Yoruba tradition, the power of lightning is connected to a man named Chango. Once a powerful king known for his compassion for his people, Chango transformed into a deity when he was struck by lightning. He wielded a double-headed axe, which represented his two power: to use lightning and thunder (whenever he wanted), and to rejuvenate the dry land with rain.



## Greek Myth

Zeus, Greek God, vanquished his father, Cronus, because Cronus had attempted to kill him and his siblings. Zeus saved the lives of his cyclopes siblings. To thank him, they presented him with a lightning bolt. Zeus used the lightning bolt as his weapon to keep the other gods in line, as well as against people and gods who angered him.

### Cyclops:

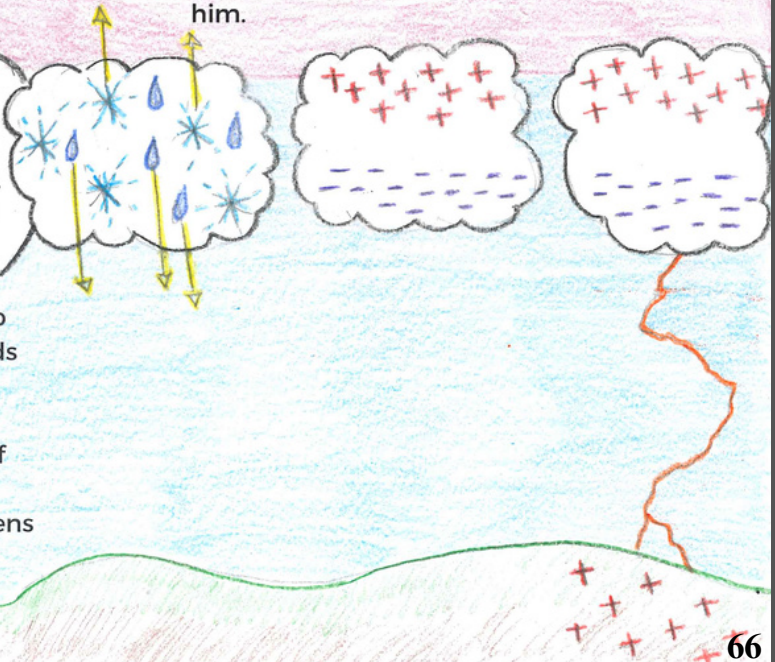
"Thank you for saving us! Here is a gift."

## Scientific Explanation

As ice crystals in storm clouds are blown upwards, they bump into tiny, falling water droplets that steal their electrons.

A positive charge builds up in the top of the cloud. A negative charge builds up in the bottom of the cloud.

The negative charge at the bottom of the storm cloud is attracted to the ground's positive charge. Nature evens out the charge with lightning.



How do we explain  
the unknown?

# MYTHUNDERSTANDINGS



SEBAGO FALL 2023  
EXPEDITION



COVER ART  
BY  
ELSIE AND HAZEL