



Project Exploration creates transformative learning opportunities for youth underrepresented in the sciences –particularly students of color and girls – by equipping them with the skills, practices, and mindset needed for a lifelong pursuit of learning. STEM@Home makes activities around science, technology, engineering, and math accessible and fun to do at home. This STEMbook activity, resources, and more are available at www.projectexploration.org/stemathome.

In this activity, you will:

observe the moon and learn about its phases!



Supplies Required:

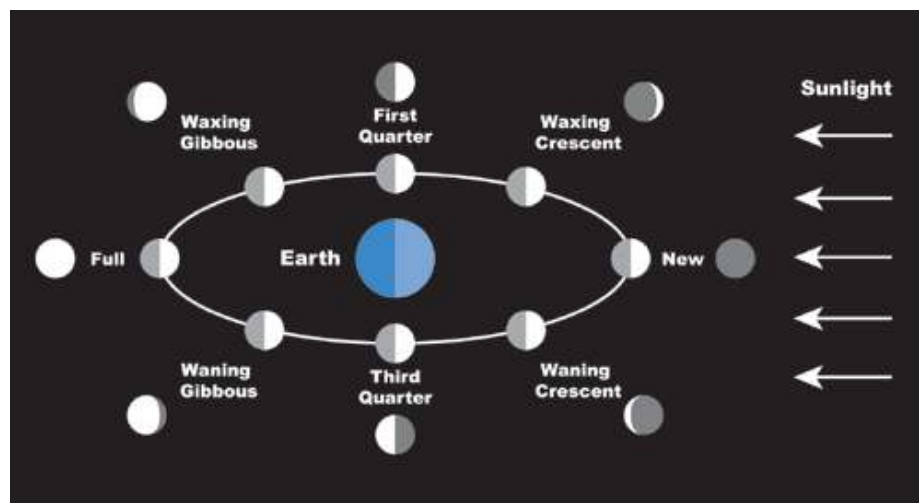
Paper
Pencil

Video

Learn more about why the moon appears to look different each night: <https://tinyurl.com/hspzhd1>

Overview

Did you know half of the Moon is always lit by sunlight? Depending on where the Earth is in its revolution around the Sun, though, we only see certain parts of the lit side of the Moon. These different positions of the Earth, Sun, and Moon mean we see the Moon in different ways during different times of the month. Take a look at this diagram to see these different phases of the Moon, also known as Lunar Phases. There are eight phases. Can you name them all? Waning means that the amount of light reflected from the moon is decreasing. Waxing means the amount of reflected light is growing.



Instructions

1. Get parent permission to go to your yard at night! Don't stray too far from home!
2. Look at the moon. Draw what it looks like on your paper. Don't forget to write the date!
3. Write down what phase of the Moon it is. Look at the diagram on the page before if that helps!
4. If you have a friend doing the activity at the same time, ask them what they see. Do you see the same thing? Why or why not?
5. Do this every night for 30 days, at the same time every night! Eventually, you should see all phases of the Moon!

Additional Resources

1. Observe the Moon with NASA: <https://tinyurl.com/qp89yyo>
2. Amazing facts about the moon: <https://tinyurl.com/wrf3erx>

Share It Out

Video chat with a friend when you both see all the phases! Make a collage of everyone's moon drawings. It helps us feel closer knowing we share the same moon!

Share on social media: Did you see all phases of the moon? Take pictures of the moon and your drawings and share it on social media.

Share your creations with the hashtags:

#LunarPhases
#ProjectExploration
#StemAtHome

Share via PE's website: Students who complete STEM@home activities and share what they learned with the PE team via our website will earn points which can be traded in for cash prizes at the Explore Store. Your project number is 302. Learn more at www.projectexploration.org/explore-store

Join PE's character contest!

Design a STEM character who will lead kids through activities and be featured on our website and in our STEMbooks. Cash prizes will be awarded to the top 3 finalists. Learn more at www.projectexploration.org/character-contest.



Call or text us for help: 312-772-6634

www.projectexploration.org