Materials Needed:

- Our Moon Observation Journal
- Pencils, colored pencils, or markers

Instructions:

1.Set Up Your Journal:

- 1. Find a cozy spot where you can observe the Moon each night.
- 2. Label your journal with the month and year.

2.Observe the Moon:

- 1. Look up at the sky during the evening or night.
- Note the Moon's appearance:
 - Is it visible? (Yes/No)
 - What shape does it look like? (Crescent, half-moon, full moon, etc.)

3.Draw What You See:

- 1. Use your pencils or colored pencils to draw the Moon's phase.
- 2. Be creative! Add details like stars or clouds around the Moon.

4.Add Descriptions:

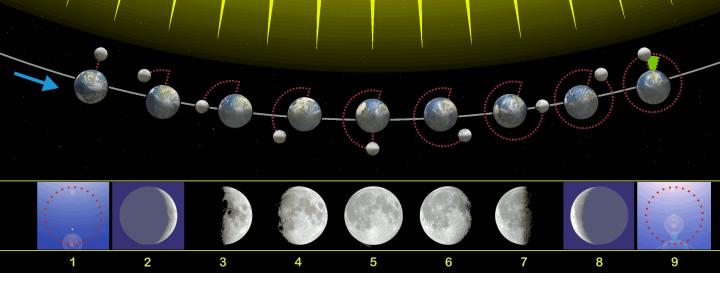
- 1. Write a few sentences about how the Moon looks:
 - Is it bright or faint?
 - What color is it?
 - Any interesting features you notice?

5. Repeat Every Night:

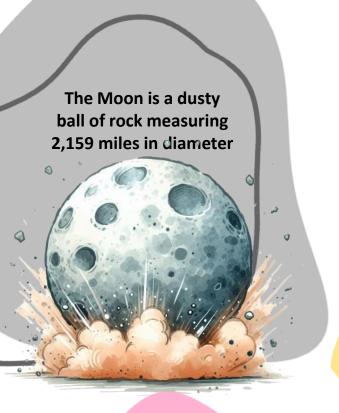
- 1. Continue observing and recording the Moon's appearance each night.
- 2. Try to observe at the same time each evening.

6.Reflect and Learn:

- 1. At the end of the month, look back at your journal.
- 2. What patterns did you notice? Did the Moon change shape?
- 3. Share your observations with friends or family!



- **1.New Moon ()**: The Moon hides in the Sun's shadow, like a cosmic ninja. It's so secretive that we can't see it at all!
- **2.Waxing Crescent ()**: A tiny crescent appears, like a cosmic smile. It's the Moon's way of saying, "Hey, I'm back!"
- **3.First Quarter ()**: Half of the Moon is lit up, like a cosmic cookie. Mmm, lunar cookies!
- **4.Waxing Gibbous (()**: The Moon grows plumper, like a cosmic banana. (Yes, bananas can be cosmic too.)
- **5.Full Moon ()**: Ta-da! The whole Moon shines like a cosmic spotlight. It's party time for werewolves and poets!
- **6.Waning Gibbous ()**: The Moon starts slimming down. Imagine it doing cosmic yoga.
- **7.Third Quarter ()**: Another half-moon, but this time it's the left side that's lit. Cosmic symmetry!
- **8.Waning Crescent ()**: The Moon bids us farewell, fading into cosmic dreams.



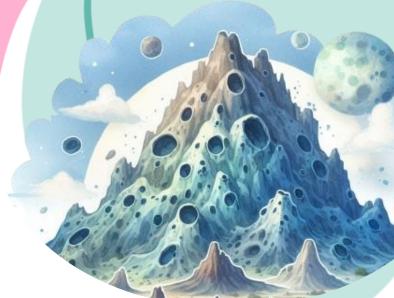


The moon is the earth's only natural satellite. Orbiting our earth at 239,000 miles. It orbit around earth is shaped like a slightly squished circle known as an ellipse.



The surface of the moon features include mountains, huge craters, and flat plains called "seas" made of hardened lava

to -243°F







A popular theory suggests that a Mars-sized rock named Theia collided with Earth around 4.5 billion years ago. The debris from this collision clumped together to create our Moon.

The Earth and Moon are tidally locked, meaning their rotations are so synchronized that we only see one side of the Moon from Earth. It wasn't until 1959 when a Soviet spacecraft flew past that humans saw the lunar far side of the moon.





Similar to the Earth, the Moon has gravity however, it much weaker than Earth's gravity, In fact its only about 1/6 of the Earth's Gravity. If you were to stand on the Moon, you'd weigh significantly less than you do on Earth.

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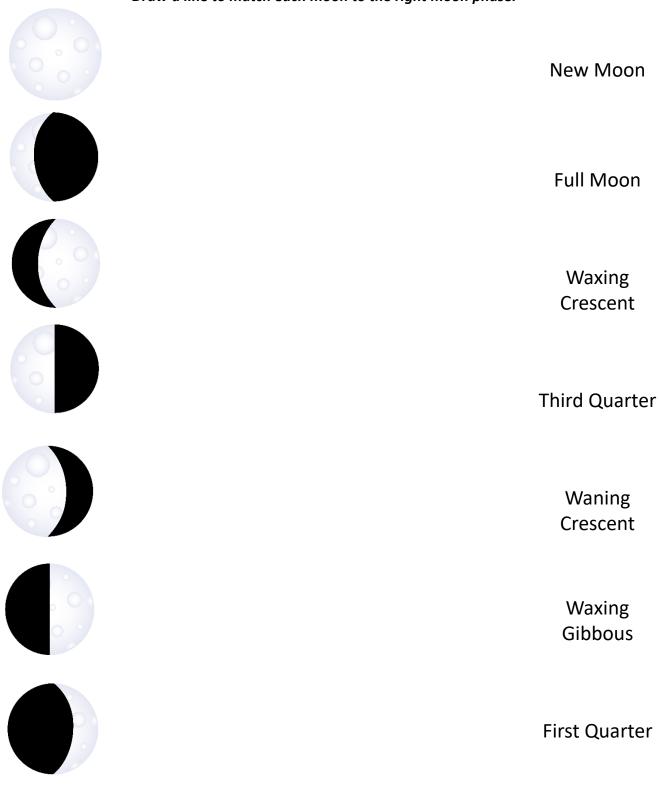
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My Favorite Moon Phase Draw a picture of your favorite moon phase Explain why this is your favorite moon phase. Include what type of moon and when you saw it

Find the Match

Draw a line to match each moon to the right moon phase.



Waning Gibbous

