

Moon Phases Worksheet

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Part 1: Building a Foundation
Which phase of the moon occurs when the side facing Earth is completely dark?
Hint: Think about when the moon is not visible.
Full Moon
○ New Moon
○ First Quarter
○ WaxinG Gibbous
Which of the following are phases of the moon? (Select all that apply)
Hint: Consider the different shapes the moon can take.
WaxinG Crescent
WaninG Gibbous
Solar Eclipse
Last Quarter
Describe what causes the different phases of the moon.
Hint: Think about the positions of the Earth, moon, and sun.

List the four main phases of the moon in order, starting with the New Moon.



Hint: Think about the sequence of moon phases.
1. First Phase
2. Second Phase
3. Third Phase
4. Fourth Phase
Part 2: Comprehension and Interpretation
During which phase is the moon more than half illuminated but not yet full?
Hint: Consider the phases that come before the Full Moon.
○ WaxinG Crescent
WaninG Crescent
○ WaxinG Gibbous○ Last Quarter
Caut Guartor
Which statements are true about the Full Moon? (Select all that apply)
Hint: Think about the characteristics of the Full Moon.
☐ It occurs when the Earth is between the sun and the moon.
☐ It has cultural significance in many societies.
☐ It causes a solar eclipse.
☐ It is the phase when the moon is closest to Earth.
Explain why the moon appears to change shape throughout the month.

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Hint: Consider the moon's position relative to the Earth and sun.



art 3: Application and Analysis
today is a New Moon, approximately how many days will it take to reach the Full Moon phase?
int: Think about the lunar cycle duration.
7 days
14 days
21 days
28 days
hich phases of the moon would you expect to see higher tides? (Select all that apply)
int: Consider the phases that align the sun, moon, and Earth.
New Moon
First Quarter
Full Moon
Last Quarter
redict how the visibility of the moon phases might change if the moon's orbit were perfectly rcular instead of elliptical.
int: Think about the effects of orbit shape on visibility.



Which phase of the moon is directly opposite the New Moon in the lunar cycle?
Hint: Think about the phases that occur halfway through the cycle.
○ First Quarter
○ WaxinG Gibbous
○ Full Moon
○ WaninG Crescent
Analyze the relationship between the moon's phases and its position relative to Earth and the sun. Which of the following are true? (Select all that apply)
Hint: Consider how the moon's position affects its phases.
☐ The moon is always half illuminated by the sun.
☐ The phases are determined by the portion of the illuminated half visible from Earth.
☐ The moon's phases are caused by Earth's shadow.
☐ The moon's orbit affects the timing of the phases.
and position in the lunar cycle. Hint: Think about how these phases differ in appearance and timing.
Part 4: Evaluation and Creation
Which moon phase would be most suitable for observing a lunar eclipse?
Hint: Consider the alignment of the Earth, moon, and sun.
O New Moon
○ First Quarter
○ Full Moon



○ Last Quarter	
Evaluate the impact of the moon's phases on human activities. Which of the following are influence by the lunar cycle? (Select all that apply)	d
Hint: Think about various human activities that may be affected by the moon.	
☐ Agricultural practices☐ Fishing schedules☐ Solar power generation☐ Cultural festivals	
Design a simple experiment to track and record the moon phases over a month. Describe the steps you would take and the observations you would expect to make.	
Hint: Think about how you would observe and document the moon's phases.	