

# **Phases Of The Moon Worksheet**

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# Part 1: Building a Foundation

#### What is the duration of a complete lunar cycle?

Hint: Think about the average time it takes for the Moon to go through all its phases.

○ 27.3 days

🔾 29.5 days

- ◯ 31 days
- ◯ 30 days

### Which of the following are phases of the Moon? (Select all that apply)

Hint: Consider the names of the different phases you have learned.

- New Moon
- Full Moon
- Half Moon

Waxin Crescent

### Describe what happens during a New Moon phase.

Hint: Think about the visibility of the Moon and its position relative to the Earth and Sun.

List the four main phases of the Moon in order starting from New Moon.

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Hint: Think about the sequence of the lunar phases.

#### 1. What is the first phase?

#### 2. What is the second phase?

### 3. What is the third phase?

#### 4. What is the fourth phase?

## Part 2: Understanding and Interpretation

#### During which phase is the entire face of the Moon illuminated?

Hint: Consider which phase allows us to see the full Moon.

O New Moon

○ First Quarter

- Full Moon
- O Last Quarter

#### Which of the following statements are true about the Waxin Gibbous phase? (Select all that apply)

Hint: Think about the visibility and illumination of the Moon during this phase.

- Less than half of the Moon is visible.
- More than half of the Moon is visible.
- The illuminated portion is increasing.
- The illuminated portion is decreasing.

## Explain why the Moon appears to change shape over the course of a month.

Hint: Consider the positions of the Earth, Moon, and Sun.

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# Part 3: Application and Analysis

## If today is a Full Moon, what phase will the Moon be in approximately one week?

Hint: Think about the progression of the lunar cycle.

○ New Moon

- First Quarter
- O Last Quarter
- O Waxin Crescent

### How might the phases of the Moon affect tides on Earth? (Select all that apply)

Hint: Consider the relationship between the Moon's position and tidal changes.

Full Moon causes higher tides.

New Moon causes lower tides.

First Quarter has no effect on tides.

Both Full Moon and New Moon can cause spring tides.

# Predict how the visibility of the Moon's phases might differ between the Northern and Southern Hemispheres.

Hint: Consider the perspective from which each hemisphere views the Moon.



# Part 4: Evaluation and Creation

### Which phase of the Moon is directly opposite the New Moon in the lunar cycle?

Hint: Think about the phases that are 180 degrees apart.

O Waxin Crescent

First Quarter

O Full Moon

◯ Last Quarter

# Analyze the relationship between the Sun, Earth, and Moon during the First Quarter phase. Which statements are true? (Select all that apply)

Hint: Consider the positions of the Sun, Earth, and Moon during this phase.

The Sun and Moon are on opposite sides of Earth.

The Moon is at a 90-degree angle relative to the Earth and Sun.

☐ Half of the Moon's surface is illuminated.

□ The entire Moon is visible from Earth.

## Which phase would be most ideal for astronomers to observe distant stars and galaxies?

Hint: Consider the brightness of the Moon during different phases.

○ New Moon

◯ Full Moon

○ First Quarter

○ Waxin Gibbous

# Evaluate the impact of lunar phases on cultural events and activities. Which of the following are influenced by the Moon's phases? (Select all that apply)

Hint: Think about how different cultures might celebrate or plan activities based on the Moon.

Harvest festivals

tidal fishing

Solar eclipses

Nighttime navigation

# Propose a scientific experiment to measure the effect of the Moon's phases on nocturnal animal behavior.

Hint: Consider how you would set up an experiment and what variables you would measure.

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