

Worksheet: Exploring the Rotation and Revolution of the Moon

Name : _____

Date : _____

Class : _____

Instructions:

- Answer the multiple-choice questions by circling the correct option.
- Fill in the blanks with the correct answer.
- Write your answer to the structured question in the space provided.
- Be creative and thoughtful in your responses to the HOTS questions.
- Enjoy exploring the fascinating movements of the Moon!

Multiple Choice:

1. What does it mean when we say the Moon rotates on its axis?

- A) It moves around the Earth
- B) It spins around in a circle
- C) It turns around once every day

2 How long does it take for the Moon to complete one full rotation on its axis?

- A) 24 hours
- B) 1 month
- C) 365 days

3. What does it mean when we say the Moon revolves around the Earth?

- A) It spins in place
- B) It orbits the Earth
- C) It reflects sunlight

4. How long does it take for the Moon to complete one full revolution around the Earth?

- A) 1 day
- B) 1 month
- C) 1 year

5. Which of the following best describes the relationship between the rotation and revolution of the Moon?

- A) They happen at the same time
- B) Rotation happens faster than revolution
- C) Revolution happens faster than rotation

Fill in the Blanks:

6. The rotation of the Moon on its axis causes _____ and _____ on its surface.

7. The time it takes for the Moon to complete one full _____ around the Earth is about 27.3 days.

Structured Question:

8. Describe the difference between the rotation and revolution of the Moon. How do these movements affect our observations of the Moon from Earth?

High Order Thinking Skills (HOTS) Questions:

9. If the Moon rotated on its axis twice as slowly as it currently does, how would this impact the length of a day on the Moon? Provide reasoning for your answer.

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| HOTS | ANALYSIS |
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10. Discuss the significance of understanding the rotation and revolution of the Moon for space exploration missions. How might this knowledge influence future lunar exploration endeavors?

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| HOTS | EVALUATION |
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