



Lesson 1

How do star patterns change?

1. **Explain** What is a constellation?

2. **Summarize** Why do stars appear to move across the sky?

3. **Analyze** Why can some different stars be seen in different seasons?

Lesson 2

What are the phases of the moon?



Cause and Effect

Like Earth's orbit around the sun, the moon's orbit around Earth is shaped like an ellipse. The gravity between the moon and Earth keeps the moon in its orbit. Because it moves, the moon stays in its orbit and doesn't crash into Earth. The moon makes a complete revolution around Earth in about 27.3 days.

4. Write a cause and its effect in the correct box.

Cause



Effect





Lesson 3

How does Earth move?

5. **Vocabulary** The spinning of Earth around its axis is called its _____.
 A. rotation
 B. revolution
 C. orbit
 D. ellipse



6. **Infer** How is Earth tilted when it is winter in the Northern Hemisphere?

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7. **Explain** How are the noticeable movements of the sun, moon, and stars related?

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Lesson 4

How has space exploration affected Florida?

8. **Analyze** What are some of the ways in which the space program has changed Florida's culture?

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What are some patterns in space?

What kinds of motion cause lunar and solar eclipses? Explain.

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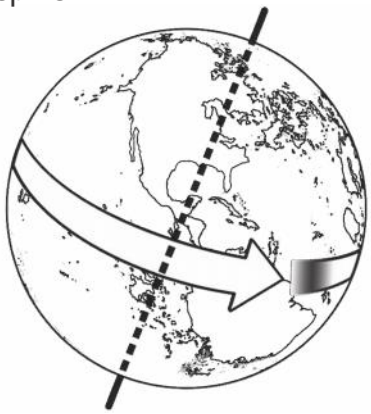
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Fill in the bubble next to the answer choice you think is correct for each multiple-choice question.

- 1** The illustration below shows how Earth spins.



When Earth spins, it turns around an imaginary line called a(n)

- (A) rotation.
- (B) axis.
- (C) orbit.
- (D) ellipse.

- 2** Constellations are

- (A) star patterns.
- (B) recognized stars.
- (C) star circles.
- (D) recognized planets.

- 3** The _____ is located in Florida.

- (A) Johnson Space Center
- (B) Kennedy Space Center
- (C) Pentagon
- (D) International Space Station

- 4** A _____ is the phase of the moon when the entire half of the moon that faces Earth is lighted.

- (A) quarter moon
- (B) first quarter
- (C) new moon
- (D) full moon

- 5** Why does Earth seem to be standing still?

- (A) Earth rotates.
- (B) Earth revolves.
- (C) Earth moves steadily and smoothly.
- (D) Earth has an axis.

- 6** Describe what causes Earth's seasons.