

# Assessments

## Assessments: Test Questions

### Unit A: Earth, Moon and Sun

100 A+

1. The daily motion of the Sun, Moon and stars is called:

- A. Direct motion
- B. Diurnal motion
- C. Daily motion
- D. Celestial motion

2. As seen from New York, most stars set in the:

- A. North
- B. East
- C. South
- D. West

3. In its daily motion across the sky, in the Northern Hemisphere, the Sun reaches its highest point in which direction?

- A. North
- B. East
- C. South
- D. West

4. What causes seasons on Earth?

- A. The tilt of Earth's axis
- B. The distance of Earth from the Sun
- C. The amount of cloud cover
- D. The brightness of the Sun

5. The smooth, dark areas on the Moon are best described as:

- A. Craters
- B. Dust
- C. Lava plains
- D. Mountains

6. Which of the following statements about the Moon is true?

- A. It does not rotate
- B. It rotates once every Earth day
- C. Its dark side always faces away from Earth
- D. From Earth we always see the same side of the Moon

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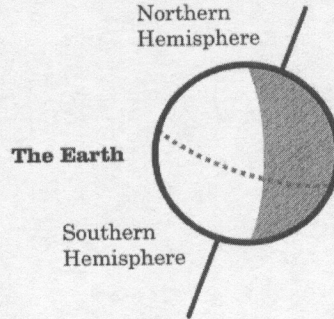
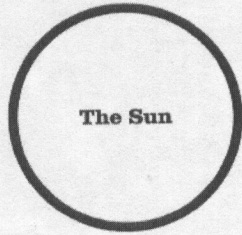
7. *The Moon goes through all of its phases approximately:*
- A. Once a day
  - B. Once a week
  - C. Once a month
  - D. Once a year
8. *The Moon appears brightest to us at what phase?*
- A. New moon
  - B. First quarter
  - C. Full moon
  - D. Last quarter
9. *A solar eclipse can only occur at what phase of the Moon?*
- A. New moon
  - B. First quarter
  - C. Full moon
  - D. Last quarter
10. *A lunar eclipse can only occur at what phase of the Moon?*
- A. New moon
  - B. First quarter
  - C. Full moon
  - D. Last quarter
11. *The length of time a total solar eclipse lasts is usually measured in:*
- A. Seconds
  - B. Minutes
  - C. Hours
  - D. Days
12. *Which of the following statements is true about lunar eclipses?*
- A. They can be seen from an entire hemisphere on Earth
  - B. They occur only in the daytime
  - C. They are extremely rare
  - D. They are caused by the Sun's shadow falling on Earth
13. *Which part of the Sun becomes visible during a total solar eclipse?*
- A. The umbra
  - B. The corona
  - C. Sunspots
  - D. The penumbra

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14. In the following illustration, is the Northern Hemisphere experiencing winter or summer?

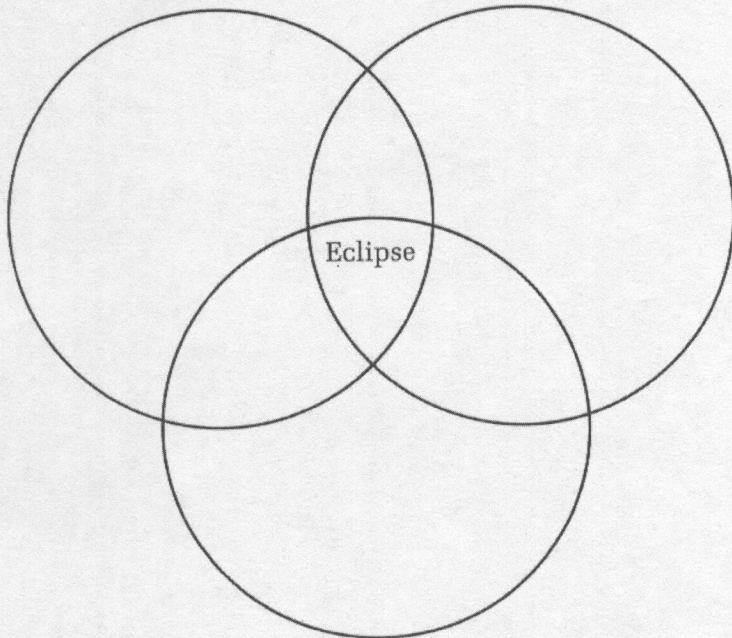


winter    summer

15. Fill in the Venn diagram with the letters of the three factors listed below that must be present for a solar eclipse to occur:

- A. New moon
- B. Moon's orbit must be tilted so the Moon doesn't travel above or below the Sun
- C. Observer must be located somewhere along the eclipse path
- D. Full moon
- E. Summer solstice

Just circle letters of correct answers



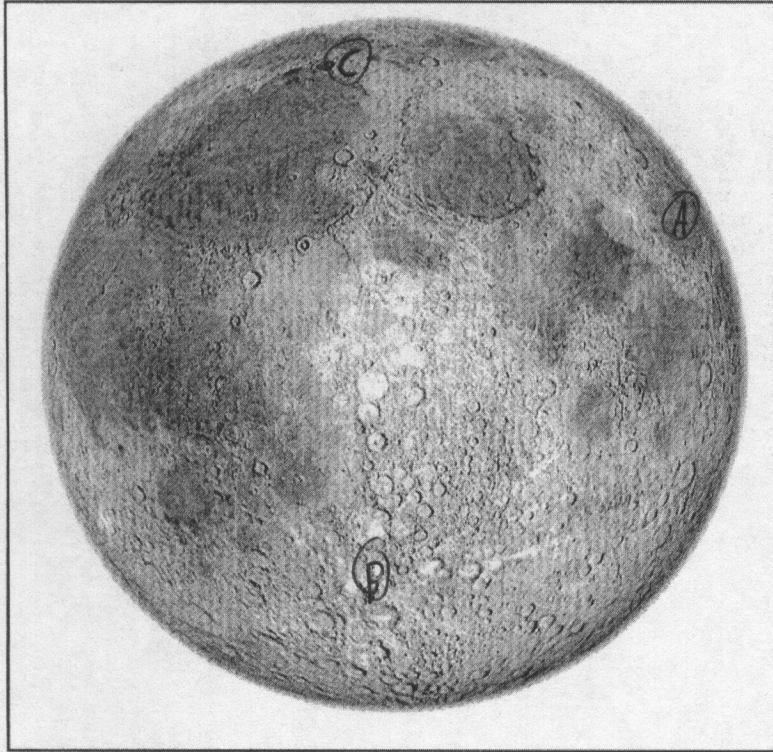
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16. Label the following features on the map of the Moon:

- A. Mare Crisium
- B. The crater Tycho
- C. The crater Plato



17. The surface features most common on the moon's far side are craters.

18. A total solar eclipse cannot be seen from Mars because:

- A. The Sun is too far away
- B. The apparent size of the Martian moons is smaller than the apparent size of the Sun
- C. The moons of Mars are not round
- D. The orbits of the moons of Mars are not tilted at the correct angle

