



Name: \_\_\_\_\_

Date: \_\_\_\_\_

### Objects in the Sky Study Guide

1. Choose the BEST answer that describes why the sun appears to move across the sky.
  - a. The sun rises in the east and sets in the west.
  - b. The sun moves around the Earth.
  - c. The Earth rotates on its axis.
  - d. The moon orbits around the sun.

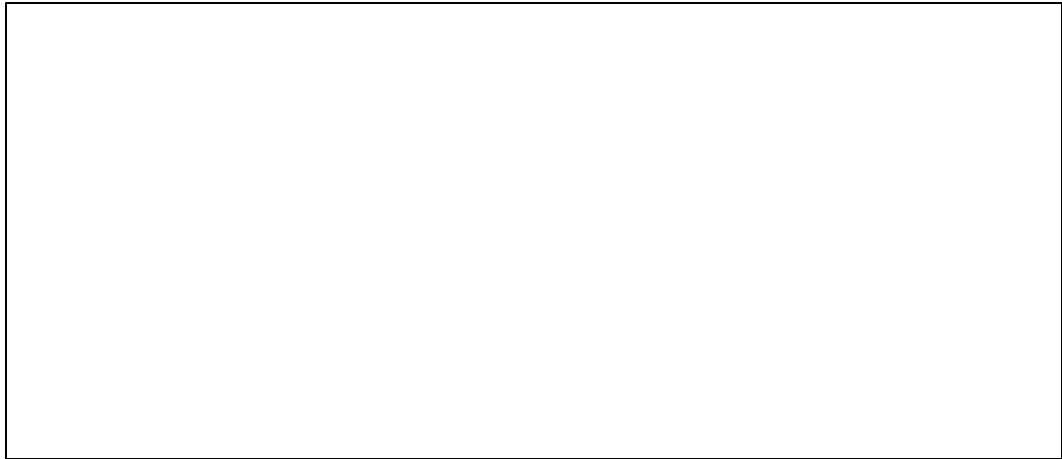
2. Explain the difference between rotation and revolution.

3. Give two reasons as to why we have seasons on Earth.

4. True or False? Summer in Australia is at the same time as summer in the United States.
- a. True
  - b. False
5. Explain why you think we have longer days in the summer and shorter days in the winter.

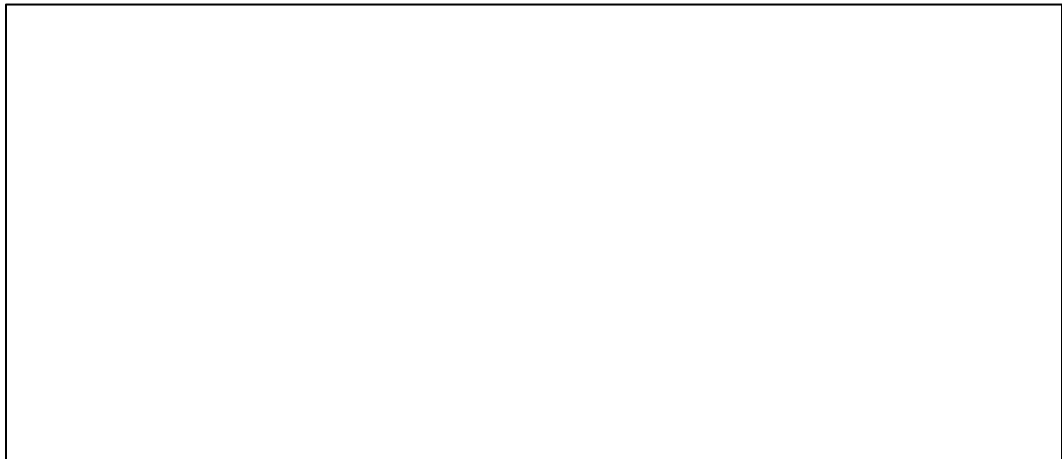
6. James caught the bus to school every morning at 7:15 a.m. He wondered why it was dark at the bus stop in December at 7:15 a.m. and light at the bus stop in May at 7:15 a.m. Choose the BEST answer that explains the difference in the amount of daylight at the bus stop.
- a. Because of daylight savings time
  - b. Because of the tilt of the Earth and the angle of the sun at different positions in the revolution around the sun.
  - c. Because the Earth's rotation is faster in summer and slower in winter
  - d. Because we move our clocks forward in spring and fall back

7. Explain why the light of the flashlight was brighter at a 90-degree angle.



8. How long does it take for the Earth to complete one full rotation?
- a. 7 days
  - b. 1 year
  - c. About 24 hours
  - d. 30 days

9. Explain what you think would happen to the Earth if we didn't have sunlight.



10. Using scientific evidence, explain how the Earth has days and nights.

A large, empty rectangular box with a thin black border, intended for the student to write their explanation of how the Earth has days and nights.