



# knowledge quiz

## The Universe

Name \_\_\_\_\_

1. Why is the sun considered a star?
  - A. It is made up of burning gases.
  - B. It emits light and heat.
  - C. It has a higher mass than planets, moons, and asteroids.
  - D. all of the above
2. Constellations are groups of stars in particular regions of the sky. Which of the following is not a constellation?
  - A. Cassiopeia
  - B. sun
  - C. Orion
  - D. Pleiades, also known as The Seven Sisters
3. Nuclear reactions that give off electromagnetic radiation take place within these objects. Many are visible at night, and they are
  - A. stars.
  - B. black holes.
  - C. nebulae.
  - D. planets.
4. A black hole is an invisible, highly dense celestial body with gravity strong enough to keep light from escaping. It is called a black hole because
  - A. black holes were named after their discoverer, Richard Black.
  - B. it is a big, dark hole in space.
  - C. it always appears dark, since no light can leave it.
  - D. it only attracts black objects.
5. What does the universe include?
  - A. our solar system and all other solar systems that exist
  - B. nine planets, one sun, asteroids, and comets
  - C. five solar systems
  - D. just our sun



# knowledge quiz

## The Universe

6. Stars are classified according to characteristics that can be observed from Earth. Which of the following is not a characteristic for classifying stars?
  - A. the star's luminosity, or brightness
  - B. the star's color
  - C. the star's size
  - D. All of these are possible characteristics.
  
7. Although they did not have telescopes, ancient people studied space. What did they observe?
  - A. details on planets in far-away galaxies
  - B. only the sun and the moon
  - C. the changing positions of stars and planets in the sky
  - D. all of the above
  
8. The universe is made up of billions of galaxies that seem to be moving away from each other. This is evidence for which theory?
  - A. the theory that the universe is expanding in size
  - B. the theory that all matter repels (pushes away) other matter
  - C. the theory that the universe is shrinking
  - D. the theory that the universe has a fixed size
  
9. The Milky Way is made up of stars. It is disk-shaped, but it bulges in the middle where it has many stars. Where is the Milky Way brightest?
  - A. in its middle
  - B. on its edges
  - C. It has the same brightness throughout.
  - D. It's not bright at all.
  
10. Galaxies are made up of billions of stars, all giving off light, but many galaxies can only be seen with powerful telescopes. What is a possible reason for this?
  - A. They are so far away from Earth that their light is very faint.
  - B. They are made up of only small stars.
  - C. They are in motion, so they are harder to see.
  - D. The space around them is darker than normal space.