



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



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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.