

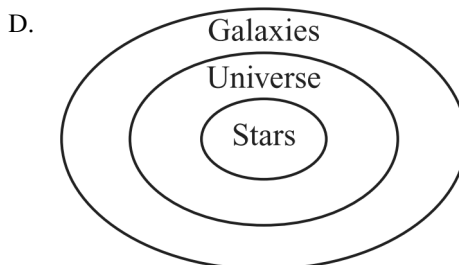
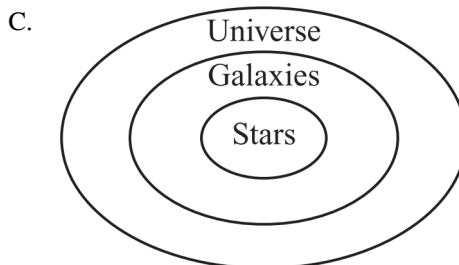
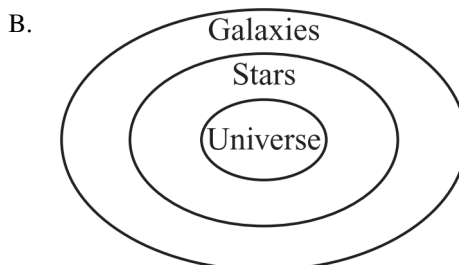
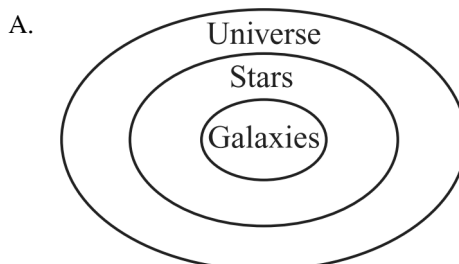
Review Quiz for The Universe

Name: _____

Date: _____

1. According to the big bang theory, the universe emerged from a hot, dense state of matter only a few millimeters across. Which statement supports the big bang theory?
 - A. Billions of galaxies fill the universe.
 - B. Gaseous planets are farther from the Sun than rocky planets.
 - C. New matter is created and added to the universe as it expands.
 - D. Objects in the universe are moving farther away from each other over time.
2. Why are light-years used to measure distances in space?
 - A. The speed of light is slower in space.
 - B. The speed of light is faster than time.
 - C. Distances in space constantly change.
 - D. Distances between stars are very large.
3. Why do the positions of stars change in the universe?
 - A. stars get smaller as they age
 - B. stars get bigger as they age
 - C. the universe is contracting
 - D. the universe is expanding

4. Which of the following diagrams *best* represents the size relationships among galaxies, stars, and the universe?



5. The final stage of a star's existence is determined by its mass. The most massive stars will end their lives as
 - A. supergiant stars.
 - B. neutron stars.
 - C. white dwarf stars.
 - D. black holes.

6. Before Galileo's discoveries, the Milky Way was thought to be a cloud in space. What did Galileo's telescopic observations show about the Milky Way?

- A. It is made of tiny water droplets.
- B. It is made of stars.
- C. It is made of tiny ice crystals.
- D. It is made of planets.

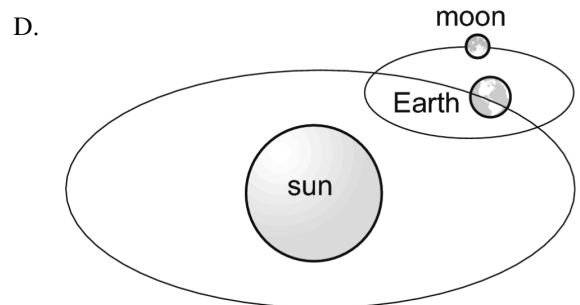
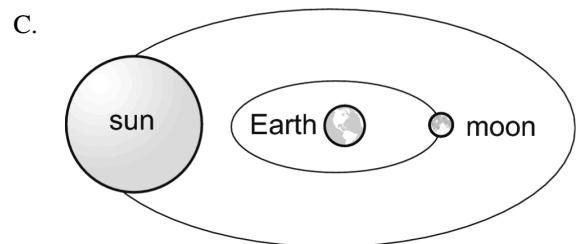
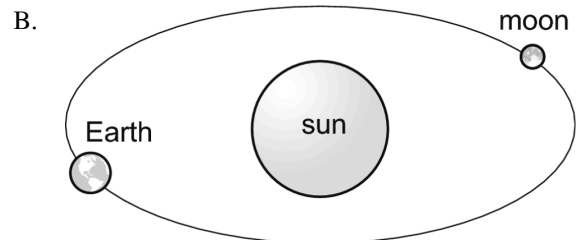
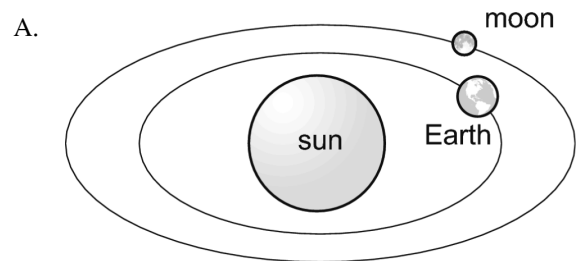
7. Which of the following statements *best* describes how the planets of the solar system formed?

- A. They are condensed rings of matter thrown off by the young Sun.
- B. They are the remains of an exploded star once paired with the Sun.
- C. The Sun captured them from smaller, older nearby stars.
- D. They formed from a nebular cloud of dust and gas.

8. At one time, the universe was thought to be limited to the Milky Way galaxy. How did Edwin Hubble change people's ideas about the universe?

- A. He provided evidence that there are galaxies outside of the Milky Way galaxy.
- B. He found other galaxies moving in orbit in the Milky Way galaxy.
- C. He measured the intensity of radio waves coming from variable stars.
- D. He discovered the composition of variable stars differs from that of nearby stars.

9. Which diagram *best* represents the relationships of motion among the sun, Earth, and the moon?



10. Which of the following radiates its own light that people can see from Earth?

- A. A star
- B. A moon
- C. A planet
- D. A comet