

Name:
Date:
Class:

- 1. The light from a star moving away from us would be 6. Which of the following represents an elliptical experiencing:
- a. Redshift
- b. Blueshift
- c. Greenshift
- d. Whiteshift

2. What force causes galaxies to move away from one another?

- a. Electromagnetic force
- b. Gravity
- c. Friction
- d. Energy left over from the Big Bang

3. Which of the following happens before a black hole comes into existence?

- a. Gravity ceases to exist in a certain region of space
- b. A new star is born at the center of a galaxy
- c. An old star collapses in on itself
- d. The fabric of spacetime is ripped by a star or planet

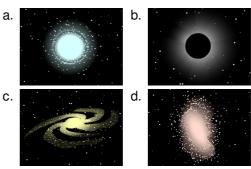
4. About how old do scientists think the universe is?

- a. 14 million years
- b. 140 million years
- c. 14 billion years
- d. 140 billion years

5. Astronomers categorize galaxies into a handful of basic shapes. What can you conclude from this fact?

- a. Galaxies all come from the same planetary nebula
- b. Galaxies are generally all formed by the same forces
- c. The number of stars in a galaxy determine its shape
- d. All galaxies have about the same number of stars

galaxy?



7. From the information presented in the movie, what can you conclude about dark matter?

- a. It is made up of black holes
- b. It holds a lot of the universe's mass
- c. It's solid, not liquid or gaseous
- d. Planet Earth contains trace fragments of it

8. How are elliptical galaxies different from spiral galaxies?

- a. They contain older stars and less gas and dust
- b. They contain younger stars and more gas and dust
- c. They are bigger than spiral galaxies
- d. They are smaller than spiral galaxies

9. What would happen to galaxies without gravity?

- a. They would spin faster
- b. They would contain stronger black holes
- c. They would contain more stars
- d. They would fall apart

10. Which of the following is a true statement about irregular galaxies?

- a. They are older than other types of galaxies
- b. They all contain massive black holes at their centers
- c. They contain relatively little gas and dust
- d. They consist mainly of young stars