

1 Which term best describes a stellar nursery?

- A A flaming ball of gas
- B A cloud of gas and dust
- C A cloud of thousands of small, young stars
- D A star system with planets and moons

2  In the movie, Tim refers to baby stars as "protostars." What can you infer about the prefix "proto-".

- A It means "last" or "after"
- B It means "infinite" or "everlasting"
- C It means "first" or "before"
- D It means "large" or "huge"

3 Place the following stages in the life of a low-mass star, like the sun, in order: A) Red giant; B) White dwarf; C) Main sequence star

- A C, A, B
- B A, C, B
- C B, A, C
- D B, C, A

4 Which of the following describes the process of nuclear fusion, as it occurs inside our sun?

- A Hydrogen and oxygen atoms combine to make water molecules
- B Helium atoms split apart to form hydrogen atoms
- C Water molecules break apart into hydrogen and oxygen atoms
- D Hydrogen atoms combine to make helium atoms

5 What effect does gravity have on stars?

- A It allows stars to break free of their galaxies
- B It helps break helium atoms apart inside of stars
- C It forms stars from clouds of gas and dust, and causes them to ignite
- D It causes stars to swell from white dwarfs to red giants

6 What is a supernova?

- A A type of black hole
- B An incredibly dense but small star
- C A star that is large and not dense
- D The explosion of a large star





7  How does a white dwarf compare to our sun as it exists now?

- A It has a similar mass, but is much denser
- B It has a larger mass, but is less dense
- C It has more mass, and is more dense
- D It has less mass, and is less dense

8 What will a star that's 1,000 times as massive as the sun ultimately become?

- A A white dwarf
- B A black hole
- C A planetary nebula
- D A red giant

9 Which of the following depicts a planetary nebula?

- A 
- B 
- C 
- D 

10 How is a neutron star different from a regular star?

- A It emits electromagnetic pulses
- B It has an almost infinite density
- C It burns brighter than a galaxy with a billion stars
- D It has less mass and greater gravity