

Star Life

<http://vital.cs.ohiou.edu/steamwebsite/downloads/StarLife.swf>

- 1) Stars begin as which of the following?
 - a. Clouds of gas and dust
 - b. Planets with temperatures reaching over 6000 degrees Kelvin
 - c. Red giants
 - d. Large masses of radioactive elements
- 2) Our solar system's star, the Sun, is in which stage of its life cycle?
 - a. A white dwarf
 - b. A super giant
 - c. A main sequence star
 - d. The only star in the Milky Way
- 3) Which causes a black hole to form?
 - a. A red giant loses all of its energy and shrinks
 - b. A star the size of our Sun dies
 - c. A supernova leaves behind a dense stellar core
 - d. A low mass star forms out of a nebula
- 4) A star produces energy because of which of the following reasons?
 - a. Uranium and plutonium are fueling nuclear fusion
 - b. The core of the star becoming more dense
 - c. Hydrogen and helium are fueling nuclear fusion
 - d. The core of the star is melting
- 5) The first stage of a star's life cycle known as?
 - a. Main sequence
 - b. Nebula
 - c. Neutron Star
 - d. Giant
- 6) Which is the largest factor in determining the path a star takes through its life cycle?
 - a. Temperature
 - b. Brightness
 - c. Color
 - d. Size
- 7) Which of the following is not part of a nebula?
 - a. Dust
 - b. Gas
 - c. Gravity
 - d. Iron
- 8) The smallest of stars will end their life as which of the following?
 - a. Black Hole
 - b. White Dwarf
 - c. Super Red Giant
 - d. Neutron Star
- 9) A main sequence star is mostly made of which two elements?
 - a. Hydrogen and Carbon
 - b. Hydrogen and Helium
 - c. Helium and Carbon
 - d. Helium and Iron
- 10) Which stage comes after a supernova?
 - a. Nebula
 - b. White Dwarf
 - c. Red Giant
 - d. Black Hole
- 11) Which stage comes before main sequence?
 - a. Red Giant
 - b. Super Giant
 - c. Supernova
 - d. Nebula
- 12) Which of the following is a star that has collapsed under its own gravity?
 - a. Main sequence
 - b. Red Giant
 - c. Nebula
 - d. Black Hole
- 13) A white dwarf began its life cycle as which of the following?
 - a. Super giant
 - b. Low mass star
 - c. High mass star
 - d. Main sequence
- 14) Nebula that never gain enough mass and never reach the appropriate temperature and pressure may end up as which of the following?
 - a. White dwarf
 - b. Brown dwarf
 - c. Neutron Star
 - d. Supernova

