

What is a star's life cycle?

Lesson Review

Write *true* if the statement is true. If the statement is false, change the underlined term to make the statement true.

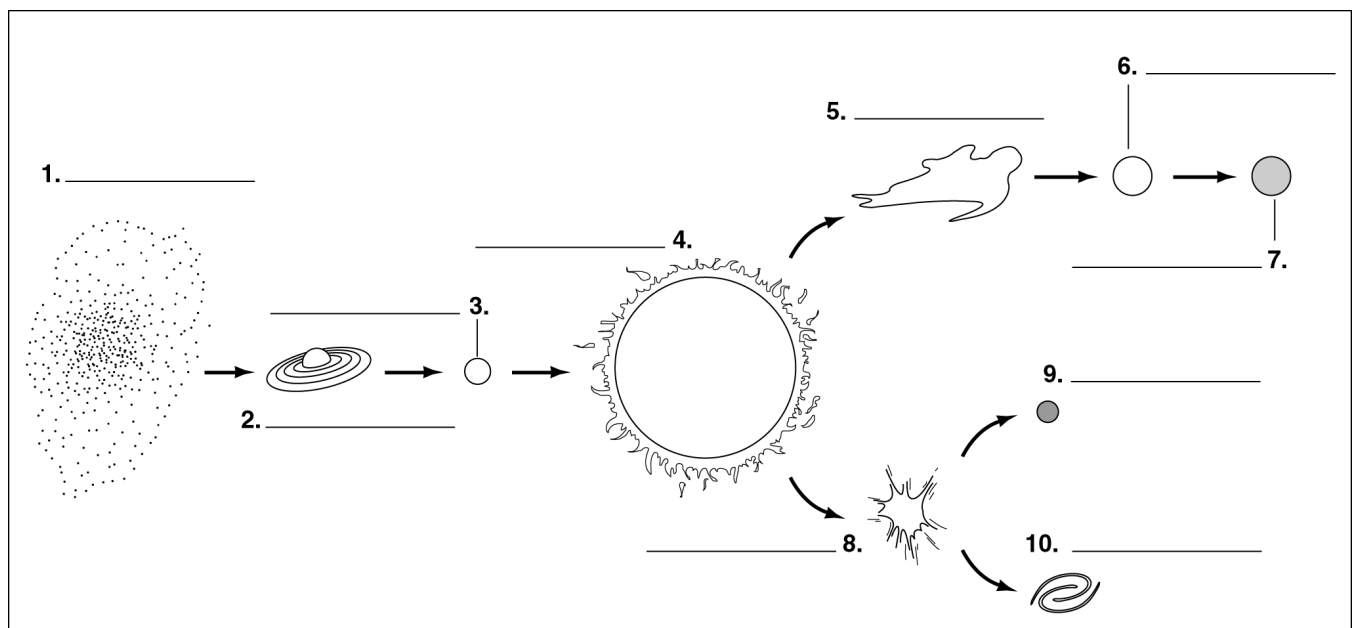
- _____ 1. A star changes its heat into energy.
- _____ 2. In 1987, a protostar was observed in the Large Magellanic Cloud.
- _____ 3. During nuclear reactions in large stars, helium is changed into carbon.
- _____ 4. A star stays in the main sequence stage until all of its helium is used up.
- _____ 5. A protostar forms when gravity pulls the dust and gases in a nebula together.
- _____ 6. A star in which the outer layer has been blown off in an explosion is called a nebula.
- _____ 7. During or right after a supernova, a star may collapse to become a black hole.
- _____ 8. A very dense ball that may form from a supernova is a protostar.

Skill Challenge

Skills: identifying, sequencing

The diagram below shows the life cycle of a small star. Label the diagram using the terms listed in the box.

black dwarf	black hole	planetary nebula	main sequence star
nebula	protostar	neutron star	white dwarf
red giant	supernova		



Answer Key

What is a star's life cycle?

Lesson Review

1. mass 2. supernova 3. true 4. hydrogen 5. true
6. nova 7. true 8. neutron star

Skill Challenge

1. nebula 2. protostar 3. main sequence star 4. red
giant 5. planetary nebula 6. white dwarf 7. black
dwarf 8. supernova 9. neutron star
10. black hole