

Integrated Science
Life Cycle of a Star

23 Points

Instructions: Label each box with the correct stage in a star's life cycle. Then fill in the blanks in the description to describe each stage.

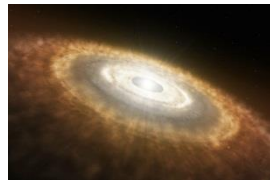
1. _____
 Cloud of gas and _____ that contracts and heats up.




WORD BANK

- Black Hole
- Collapses
- Dust
- Elements
- Expands
- Fusion
- Gas
- Gravitational Pull
- Helium
- Hydrogen
- Iron
- Main Sequence Star
- Nebula
- Neutrons
- Neutron Star
- Planetary Nebula
- Protostar
- Red Giant
- Red Supergiant
- Star
- Supernova
- Thermal
- White Dwarf

2. _____
 Stellar cloud of gas and dust that has enough mass to form a _____.




3. _____
 Nuclear fusion turns _____ into _____




Average or small star

Massive Star

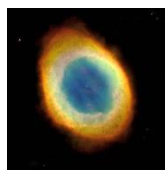
4a. _____
 The star _____ and temperature decreases.




4b. _____
 Hydrogen is gone, so Helium fuses into other _____, the heaviest being _____.
 The star expands and temperature decreases.




5a. _____
 When hydrogen runs out, the star collapses and becomes surrounded by a glowing cloud of _____




5b. _____
 The star core violently _____ expelling all gasses.



6a. _____
 Does not undergo _____.
 Glows from leftover _____ energy



6b. _____
 Protons and electrons merge to form _____. The core collapses and becomes very dense



Very Massive Star

6c. _____
 Core collapses and the _____ is so great that nothing can escape it.

