

Cut out each statement below. Then reorder the statements into the correct order, starting with the title. Glue these into your notebook.

TITLE: BIRTH AND DEATH OF LARGE STARS

NEUTRON STAR

- ❖ If the mass is less than 3 times the size of our sun, it becomes a neutron star

BLACK HOLE

- ❖ If the mass is more than 3 times the size of our sun, it becomes a black hole

SUPERNOVA

- ❖ The outer layers are blown off in a large violent explosion
- ❖ The core material contracts
- ❖ The remnants are more than 1.44 times the size of our sun

PROTOSTAR

- ❖ Contraction of the gases causes the temperature to reach 10000°K
- ❖ Hydrogen undergoes nuclear fusion to form helium and the star begins to shine

A VERY LARGE STAR

- ❖ If the star is a very large star, then the hydrogen will be used up quickly by nuclear fusion
- ❖ The core contracts while the outer layers expand
- ❖ The surface temperature decreases
- ❖ This process occurs quickly

NEBULA

- ❖ A ball of gas whose gravitational attraction causes it to contract

PULSAR

- ❖ Material contracts due to gravity and emits X-rays

SUPERGIANT

- ❖ Helium and carbon are consumed by nuclear fusion

