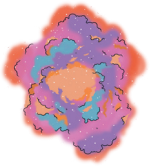
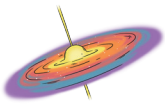
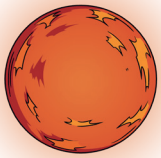
Life Cycle of a Star the Size of the Sun







Cut out the labels. Then, stick them next to the right stage in the life cycle of a star the size of the Sun diagram.

black dwarf

red giant

main sequence star

protostar

white dwarf

nebula

Nuclear fusion starts.

The expansion forces are equal to the gravitational forces, so the star is stable.

Fusion stops.

Energy is emitted to the surroundings and the star gets gradually dimmer.

Expansion forces are larger than gravitational forces, so the star expands.

Gravitational force causes the star to collapse.

Gravity pulls particles closer together.

Larger nuclei can fuse here.

The star begins to emit light.