

# LIFE CYCLE OF A STAR



## NEBULA/PROSTAR

A nebula is a large cloud of dust and gas that spins together. It is where stars are born.

## MAIN SEQUENCE

When the protostar gets hot enough, a nuclear reaction begins and it starts to glow like our sun.

## RED GIANT

When the main sequence runs out of hydrogen, the star expands and it becomes a red giant.

## SUPERNOVA

When the core collapses due to nuclear fusion, a star explodes.

## BLACK DWARF

A black dwarf is made when a white dwarf star becomes too cold and gets darker and

## BLACK HOLE

A black hole is a region of space that absorbs all light, and from which nothing can escape.

## NEUTRON STAR

A neutron star is a very small and dense star.

## PULSAR

Pulsars are neutron stars which spin rapidly and produce huge electromagnetic radiation along a narrow beam.