Date: _____

SNC1D **The Sun and Other Stars**

Why is the Sun the most important star? Give two reasons.

_____

Formation of the Solar System

Observations:

-
-
-

How did the solar system form?

Solar nebula theory: _____

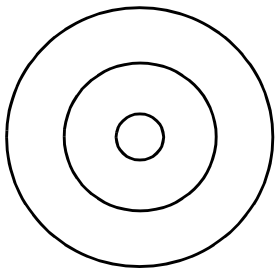
_____

Evidence

-
-
-

Extrasolar planets? _____

How the Sun Became a Star



Energy in the Sun is mostly transferred by _____

from the _____ to about _____.

The outer layers transfer energy in _____.

Describe the process of nuclear fusion. Include a diagram.

_____

_____

_____

_____

Features of the Sun

sunspots: _____

_____

solar flares: _____

_____

Characteristics of Stars

temperature: _____

luminous: _____

(non-luminous: _____)

luminosity: _____

_____

The Colour and Temperature of Stars

Stars in the night sky generally look like _____, but through a telescope they may look _____.

The temperature of the Sun's photosphere is _____. The Sun's colour is _____.

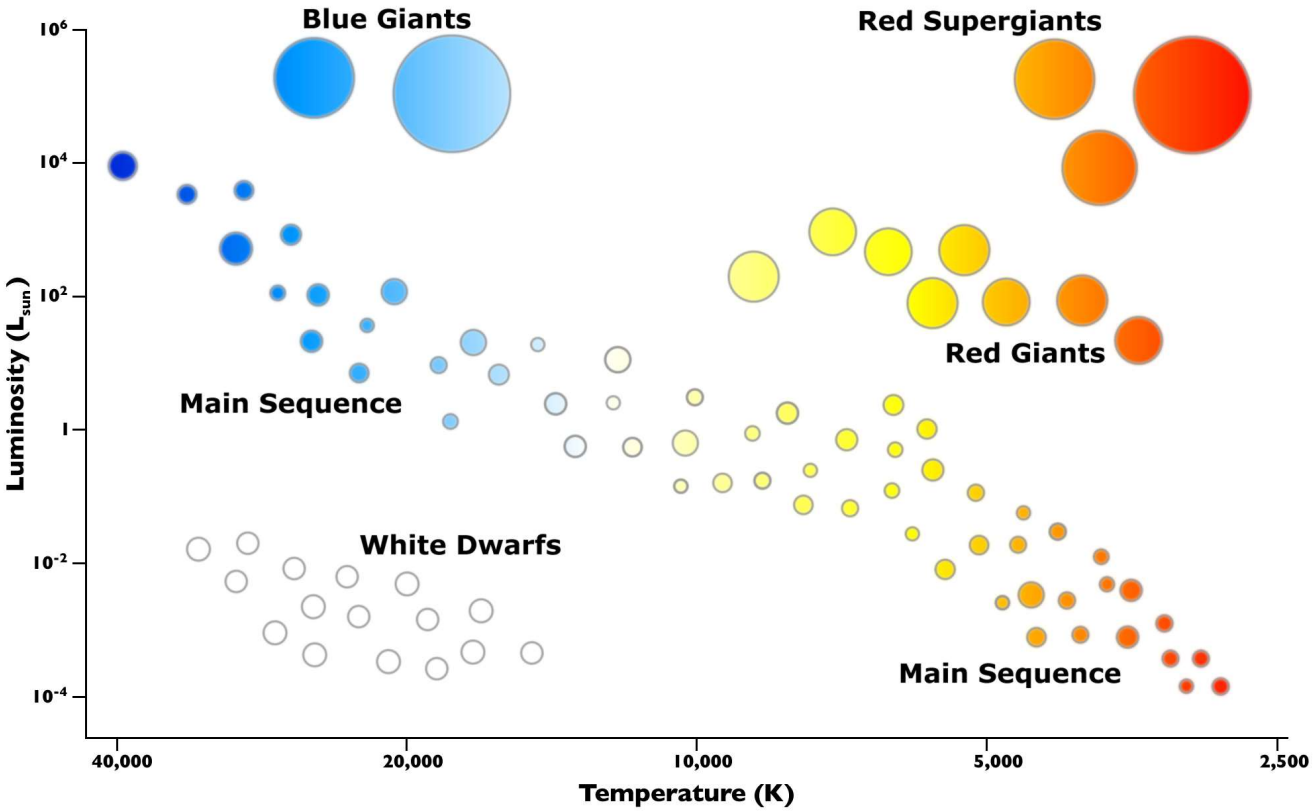
Astronomers _____ that all stars of the _____ have _____.

Temperature of Star

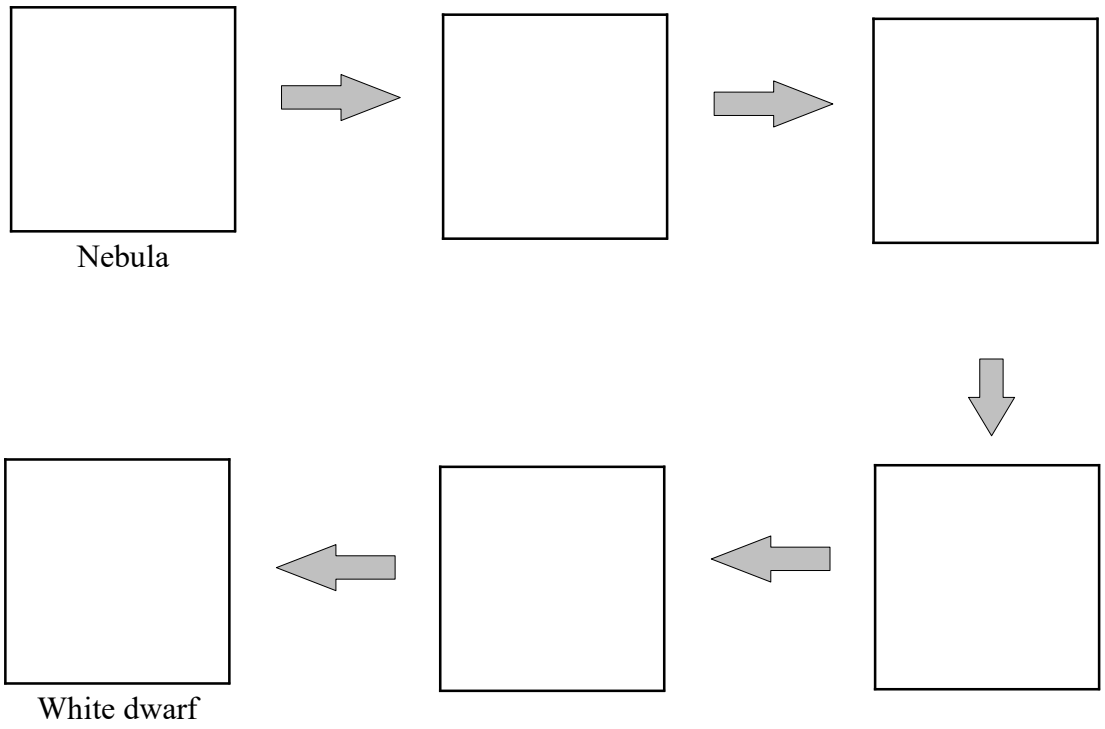
_____

Colour of Star

Hertzsprung-Russell Diagram



Draw the life cycle of a star as it changes from a nebula to a white dwarf. Label each box.



Draw the life cycle of a star as it changes from a nebula to a neutron star. Label each box.