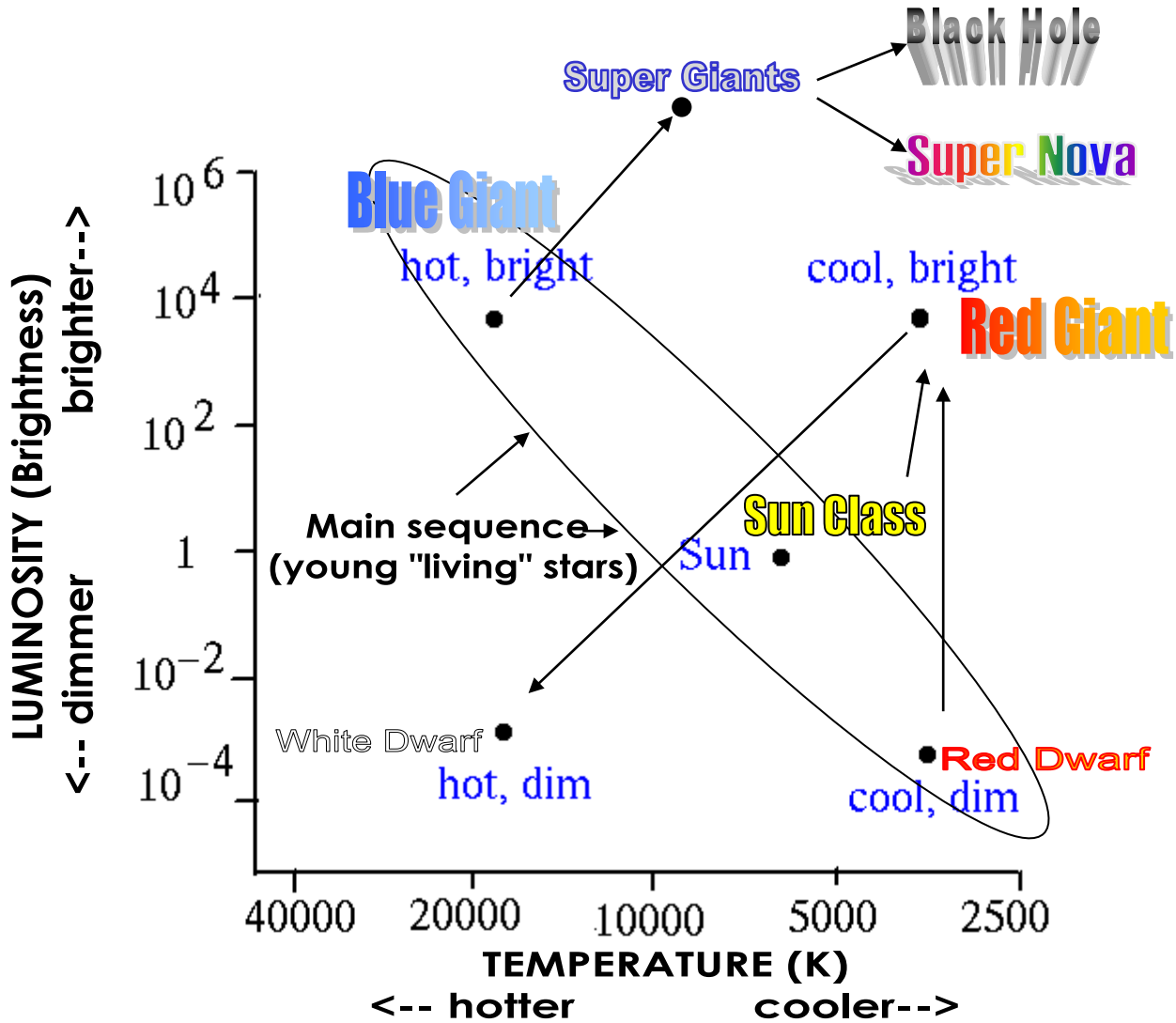


HERTZSPRUNG-RUSSELL DIAGRAM

Basics of the HR diagram

In a Hertzsprung-Russell diagram, each star type is represented by a dot. One uses data from lots of stars, so there are lots of dots. The position of each dot on the diagram corresponds to the star's luminosity and its temperature

- The vertical position represents the star's luminosity, and the horizontal position represents its temperature



- Stars spend most of their lives as _____.
- During its lifetime, the surface _____ and _____ stays pretty much constant.
 - Something else could happen in the star birth process.
 - Something else could happen in the star death process.
- The star's mass determines what the temperature and luminosity is during the star's main sequence lifetime.
 - More mass -> _____.
 - More mass -> more _____.
 - Also, more mass -> _____.

Dying stars follow two different sequences:

