

# Sun Stars + Galaxies

1. Stars produce their own energy/light through Nuclear Fusion. Hydrogen + Hydrogen = Helium + Energy
2. Most stars ~ 90% are Main Sequence ~ the Sun.
3. The hottest stars are BLUE
4. Coolest stars are Red
5. More Massive stars are brighter (more Luminous).
6. Use HR diagram to learn about different stars.  
ESRTp.15
7. Lifecycle of a star : A. Gas Cloud (nebula) B. Proto Star

C. Sun = Main Sequence

D. Red Giant = Expands + cools

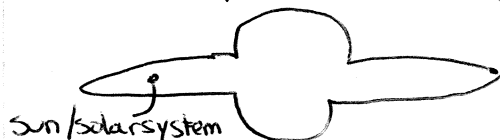
E. EXPLOSION supernova

F. White Dwarf = Shrinks + warms

G. Black Dwarf = cools + dies out

8. Galaxies = Huge body of billions of stars.

9. Milky Way Galaxy = Our galaxy. Spiral galaxy.





Sun, Earth, Solar System are located on one Spiral Arm.


sun/earth  
solarsystem



10. Galaxies are classified by shape:

Spiral 

elliptical 

irregular 

11. Scientists use a spectroscope to study distant stars / planets and analyze the gases by their spectroscope + color.