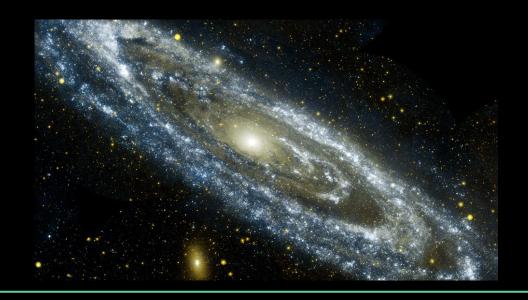
Beyond our Solar System



Chapter 25

25.1 Properties of Stars

<u>Constellations</u>: observed patterns of stars named after mythological creatures and heroes.

There are over 88 recognized constellations, which can be used as a map of the sky.

Summer Sky





Measuring distances

Light year: the distance light travels in 1 Earth year (speed of light is 186,000 mi/second)



Properties of Stars

Color and Temperature

 Star color is determined by the star's surface temperature.



Mass

- Least massive are the red dwarf stars.
- Most massive are the hypergiants.
- Bigger stars "burn" brighter and "die" faster than smaller stars.

Properties of Stars

Apparent Magnitude:

The measure of a star's brightness as observed from Earth

Absolute Magnitude:

The measure of a star's brightness when compared to other stars

