

BYA Class 9

- Constellation Review
- Binoculars
 - e.g. 7x35 = 7 power and 35 mm objectives
- Telescopes
 - Types: Refractor, Reflector, Compound (Catadioptric e.g. Schmidt Cassegrain), Dobsonian
 - Key parts: lens, objective, mirror, eyepiece, diagonal, corrector plate, finder, mounting
 - Diameter, f number, focal length
 - $f\# = (\text{focal length}) / (\text{diameter})$
 - Light gathering power (area of mirror or lens)
 - Resolution (diameter of mirror or lens)
 - Magnification
 - $(\text{telescope focal length}) / (\text{eyepiece focal length})$
 - Useful range of magnification
 - 3 x (Diameter in inches) to 50 x (Diameter in inches)
- Telescope Mountings
 - Alt-Azimuth; especially Dobsonian
 - Equatorial Mounting
 - Clock driven
 - Computer driven
- Telescope Shopping