fwk-iupui 04/20/09

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# = (focal length)/(diameter)
  - Light gathering power (area of mirror or lens)
  - Resolution (diameter of mirror or lens)
  - Magnification
    - (telescope focal length) / (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
- Observing:
  - Finding objects
  - “Seeing”
  - Dark Adaption
  - Peripheral Vision
- Telescope Shopping:
  - “Department Store Scopes”
  - “Camera Store Scopes”
  - “On Line Scopes”