

- **The Sky**
 - Constellations
 - e.g. Orion, Ursa Major, Leo, Cassiopeia, Taurus
 - Northern and Southern
 - Patterns: Simple or fantasy
 - Constellation vs Asterism
 - e.g. Ursa Major vs Big Dipper, Pleiades
 - 88 Constellations (Big and Small)
 - Zodiac: 12 Constellations, **path of sun** and planets, Sun Sign
- **Simple Telescopes: Dobsonian!**
 - Operation: Collimation
 - Finder Alignment
 - Eyepieces and focusing
- **Astrophotography**
 - Stars are faint!
 - Fast film or CCD chip, e.g. ISO 800; Color
 - Motion of stars
 - Exposure limited to ~ 10 to 20 seconds with normal lens
- **Cameras (Film or digital):**
 - Manual Control
 - Focus – Infinity for Stars
 - Exposure duration - 10-30 seconds
 - Focal length: short to normal (35 to 50 mm equivalent), no telephoto.
 - Lens Aperture (Opening) - Wide Open
 - Flash off
- **Film Camera Operation:**
 - Load Film, 'mark' beginning of roll
 - Set Camera Focus, Exposure, Lens Aperture
 - Aim!
 - Tripod, Cable Release, Shoot, Record
 - Finish, 'mark' end of roll
 - Rewind
 - Process (Drug Store), Print! (get a digital CD if you want me to digitally enhance)
 - **LABEL**
- **Equipment Handout for Projects**