

- **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!**
 - Type: Reflector – Mirror, diagonal, eyepiece
 - 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 ~ 5 to 15 seconds with normal Point and Shoot Lens at wide angle zoom setting.
- **Cameras (Digital):**
 - Manual Control
 - Focus – Infinity for Stars
 - Exposure duration – 5 to 15 seconds
 - Focal length: Wide angle to normal zoom setting.
 - Lens Aperture (Opening) - Wide Open if controllable.
 - Flash off, focus assist light off.
 - ISO 800 recommended
 - Dark frame subtraction if available
 - Downloading Pictures
 - To use or not use the camera supplied software?
- **Introductions - Projects**
- **Light Pollution Assignment**
- **Equipment Handout for Projects**