

BYA Class 7

- Constellations IV - Winter
 - Orion (the hunter)
 - Betelgeuse (RSG), Rigel (BG), Orion Nebula (Stellar Nursery)
 - Taurus (the bull)
 - Aldebaran (RG)
 - Pleiades - the Seven Sisters, (Star Cluster); Subaru Cars!
 - Canis Major (the big dog)
 - Sirius (brightest evening star, 8.6 ly distant, white dwarf companion)

- Eclipses
 - Solar (*total = spectacular*)
 - Previous total solar eclipses; eclipse path
 - total, partial, annular
 - geometry (0 - 170 mile spot)
 - duration (0 - 7.5 minutes), events (prominences, chromosphere, corona)
 - safe viewing: pinhole camera, welders goggles, eclipse shades, eyepiece projection, solar filters
 - Upcoming eclipses
 - Lunar
 - total (to 1hr 40min), partial
 - color (red - copper - grey), duration
 - Eclipse Seasons - twice a year

- Comets
 - Physics
 - Dirty Snowballs, 1 to 10's miles diameter, ices and dust
 - orbit (elliptical), close to sun - tail which points away from sun,
 - Short and long period
 - Halley = short
 - Hyakutake and Hale-Bopp = long
 - Observing
 - naked eye, binoculars, dark location