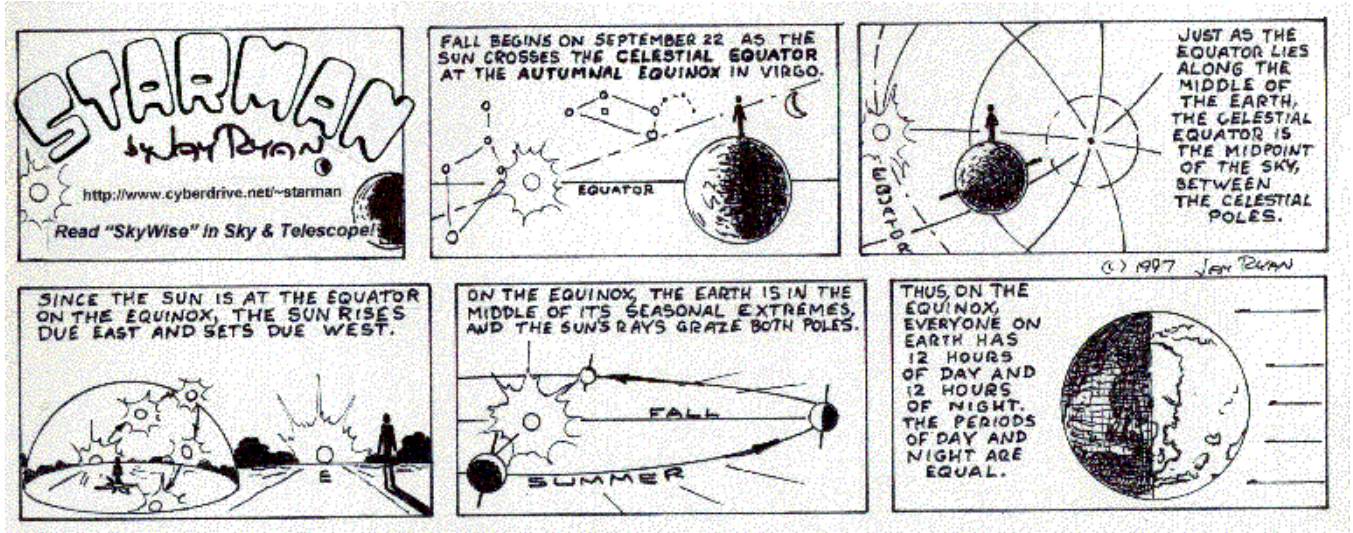


*REVIEW: OBSERVING THE SKY*

**MAJOR TOPICS : APPEARANCE AND MOTIONS IN THE SKY**

- Constellations
- Coordinate Systems (horizon, RA & Dec, etc.)
- Daily motion
- Annual motion of the Sun & Stars (the Ecliptic & Analemma)
- Motion and phases of the moon
- Motion and positions of the Planets

Bring Your  
Field Guide to  
the exam!!!



**I. THE CELESTIAL SPHERE**

Review the Powerpoints

**A. Constellations: FIELD GUIDE (FG) Ch. 4**

- Origin and organization, asterisms
- Constellation names, abbreviations, genitives (FG pp. 512-513)
- Star names ("other" and Bayer designation)  
Know how to find them! (Atlas Charts and Star Distances & Magnitudes Worksheets)

**B. Coordinate systems: FIELD GUIDE Ch. 15**

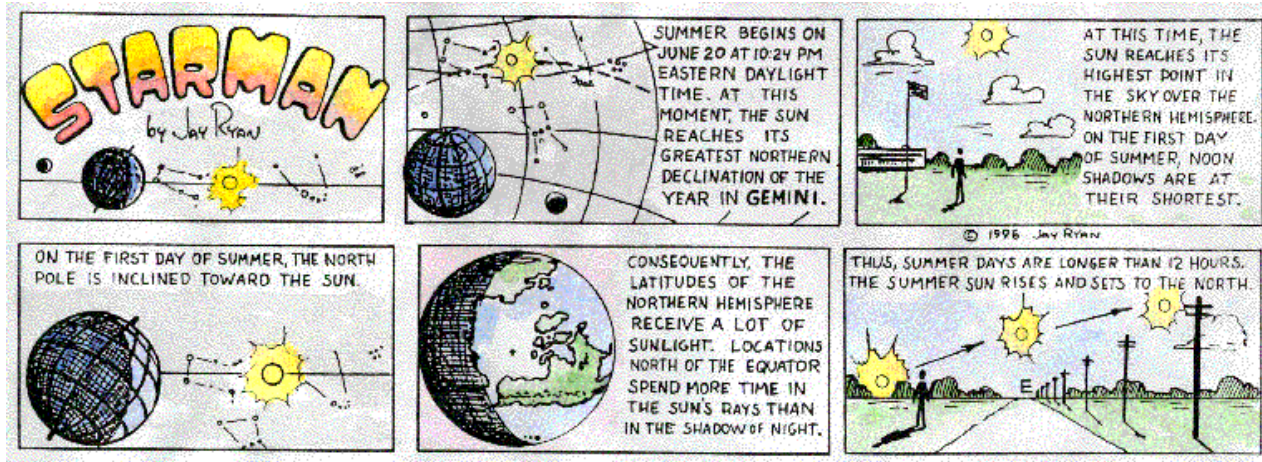
- horizon - horizon, zenith, nadir, meridian, etc.
- celestial - RA, Dec, NCP, SCP, Celestial Equator  
(Celestial Coordinates & Changes in Latitude Worksheets)

Sky Stuff to Know:

Constellations: UMa, UMi, Dra, Boö, CrB, Her, Lyr, Cyg, & Aql  
 Motions: Earth, Sun, Moon  
 Solstices & Equinoxes  
 Know their definitions!  
 Know their  $\alpha$ ,  $\delta$ , PL, date, & constellation  
 Know how to find the Atlas Chart of Each

Review All the Worksheets (ALL the calculations)





C. Motions in the sky

- daily motion CYCLES pp. 1-10, stars, sun, moon, planets, comets, etc. circle NCP once per day (Rising, Setting & Time in the Sky and Speed of Noon Worksheets) Time zones & Celestial Navigation (Worksheets)
- annual motion CYCLES pp. 20-32 equinoxes and solstices: RA, Dec, sub-solar latitude, constellation, date (Ecliptic Worksheet) the sun's motion along the ecliptic, and in declination, the Zodiac sidereal and solar day and the Analemma (Day Through the Seasons Worksheet) named latitudes ... why do they have names? what defines them?
- planetary longitude, elongation & planetary configurations (Graphic Timetable and Positions of the Planets Worksheets)
- precession (Astronomy & Astrology worksheet)
- motion and phases of the moon CYCLES pp. 11-19 phases, elongations, times of rising, transit, and setting (Moon Worksheet!!) eclipses ... definitions & why they don't happen every month tides ... causes and consequences

Be able to fill in the table on "The Ecliptic" worksheet!

**COME PREPARED TO THINK HARD FOR TWO HOURS!**

**KNOW HOW TO DO WHAT YOU DID ON THE WORKSHEETS**

