

Astronomy 103 Exam 1 – Review Sheet

- Segment 1
 - Lecture Tutorial Sun Size – emphasized proportional reasoning through comparing the sizes of things – Earth, Moon, Lunar orbit, Sun, Earth Orbit
 - What's in the Solar System, Milky Way Galaxy, Universe (Worksheet)
 - Rank objects in order of increasing/decreasing distance
 - Special Units
 - What unit would you use to express the distance to a globular cluster?
 - Look-back time
- Segment 2
 - List the ways in which astronomy was important to ancient peoples
 - Describe the basic observations one can make in the night sky
 - Diurnal motions – all objects rise in the east and set in the west (except circumpolar stars)
 - Lecture Tutorial on Position
 - Planet's (and sun and moon) wander among background stars
 - Mars, Jupiter, and Saturn make retrograde loops at opposition
 - Mercury and Venus are always near the sun
 - Parallax was not observed
 - Describe the functionality of Stonehenge (ArcheoAstronomy Worksheet)
- Segment 3
 - Describe the Ptolemaic Geocentric model
 - Explain the basic observations in terms of this model (Ptolemaic Model Worksheet)
- Segment 4
 - Describe the Copernican Model
 - Know Elongation (Worksheet) and the special configurations
 - Know Sidereal/Synodic Periods
- Segment 5
 - Kepler's Laws
 - NAAP Lab
 - Lecture Tutorial Kepler's 2nd Law
- Segment 6
 - Galileo (telescope usage)
 - Scientific Method
 - Describe observations made in support of Copernican Model
 - Newton
 - 3 Laws of Motion (Worksheet)
 - Law of Gravity (Worksheet)