**Unit 4 – Space**

**Study Guide for Quiz #1**

**Observing Celestial Bodies – Chapter 10**

1. Define *celestial body*
2. Describe the apparent motion of celestial bodies (what is their path called, what is its shape, why do they move this way). Include:
   1. Planets
   2. Moons
   3. Asteroids
   4. Comets
   5. Our Sun
3. What is a constellation?
   1. Which ones are *circumpolar*? What does this mean?
   2. What are zodiacal constellations?
   3. What is an asterism?
4. Recognize the following constellations on a star chart:
   1. Ursa Major (Great Bear, includes Big Dipper)
   2. Ursa Minor (Little Bear, Little Dipper)
   3. Orion (the Hunter, includes Orion’s belt)
   4. Cassipeia (the Queen)
   5. Leo (the Lion)

**Early Models of the Universe**

1. Describe the contributions of the following to our understanding of celestial bodies and how they move:
   1. Aristotle
   2. Aristarchus
   3. Ptolemy
   4. Nicolaus Copernicus
   5. Galileo Galilei
   6. Johannes Kepler (include Kepler’s 3 laws of planetary motion)
   7. Sir Isaac Newton
2. Define a geocentric and heliocentric view of the universe
3. Describe the use of an astrolabe and a kamal
   1. What are some advantages/disadvantages to knowing and/or using these methods?

To help you prepare for your quiz, answer the following questions:

* Ch 10.1 on pg 365 #5, 6, 7, 12
* Ch 10.2 on pg 375 #3, 4, 6, 10
* Ch 10.3 on pg 385 #3, 5, 6, 12
* Chapter Review on pg 386-387 #1, 2, 5, 6, 8, 9, 11, 12, 13, 16, 17, 18