

STUDY GUIDE CHAPTERS 24 & 25

1. Know this information about the planets:
 - the order of the planets
 - which planets are rocky and which are gaseous
 - which planets have one or more rings and which have one or more moons

2. Which planet(s)...
 - has a tilted axis of rotation?
 - sometimes switch spots in their order from the sun? (2)
 - has a big storm in its atmosphere?
 - is the “blue” planet because it has water?
 - is referred to as “Earth’s twin”?
 - have a blue-green color due to methane in the atmosphere? (2)
 - have mostly hydrogen and helium in the atmosphere? (2)
 - is warm (35°C) in the daytime but freezing cold at night?
 - is hot (450°C) in the daytime but freezing cold at night?
 - is hot throughout the entire day due to its greenhouse gases?
 - has 1000’s of rings?
 - have liquid water, ammonia, methane, and a core? (2)
 - are near the asteroid belt? (2)
 - is thought to have originated as an asteroid?
 - is located 1 AU from the sun?
 - is red due to the presence of iron oxide?

3. Know what a comet is. Know what happens to it as it goes around the sun. Draw and label the parts. Also know about meteors, meteorites, meteoroids, and the 2 asteroid belts.

4. Know what a light year is and how long it takes light to travel from the sun to the earth.

5. Be able to draw an H-R diagram and fill in the appropriate types of stars. Know the relationship between the temperature and the color of stars. Know the relationship between the size and brightness of stars. Know that bright stars are negative and dull stars are positive in terms of their absolute magnitudes.

6. Describe each of these: nebula, main sequence star, red giant, white dwarf. Know them in the correct order. Be able to tell how each of them form.

7. Describe each of these: nebula, supergiant, supernova, black hole. Know them in the correct order. Be able to tell how each of them form.

8. Know all about parallax. Be able to describe the activities we did in class.

9. Know all about the Doppler Shift. Be able to describe how the Doppler Shift affects objects in space. Know how it affects the sound of an ambulance siren.

10. Know the meaning of the following terms:
3 shapes of galaxies, fusion reaction, apparent/absolute magnitude, corona, Polaris, Big-Bang theory, eccentricity