

## **ASTRONOMY Test Topics include:**

### **SIZE OF OBJECTS IN THE SOLAR SYSTEM:**

- a. what is a scale model?
- b. Scale model for size of planets vs. Scale model for distance
- c. Astronomical Unit (AU) : distance from Earth to Sun.
- d. Size of Earth vs. Jupiter, Dwarf Planets, Stars.
- e. Planets vs. Stars

### **INNER VS. OUTER PLANETS**

- a. What characteristics do the inner vs. outer planets have? (Structure, size, temp, etc.)
- b. Distances from sun (Orbital path).

### **POSITIONS OF EARTH, MOON, SUN**

- a. What various Sun, Earth, Moon positions mean.
- b. Orbits of different planets compared to Earth/Sun orbit.
- c. Revolution vs. Rotation

### **PHASES OF THE MOON**

- a. Positions of the moon vs. Earth/Sun
- b. Waxing vs. Waning
- c. Crescent vs. Gibbous
- d. Predict moon phase on a calendar.

### **ECLIPSES**

- a. Which phase of the moon is which eclipse?
- b. Difference between total and partial eclipse
- c. Difference between solar and lunar eclipse

### **TIDES**

- a. What causes tides?
- b. Spring tide vs. Neap tide
- c. Which phases of the moon make which tides?
- d.

### **SEASONS**

- a. Why do we have seasons?
- b. Position of Earth relative to the Sun.
- c. Seasons in Northern Hemisphere vs Southern Hemisphere
- d. If the Earth was at a different tilt, what would that mean for climates?

### **STUDY OF SPACE TECHNOLOGY OVER TIME**

- a. List 2-3 missions that are currently going on.
- b. What are we currently studying outside of our planet?
- c. How have we studied space at different times in history? Galileo, Greeks, Present day.

### **ASTRONOMY EXPERIMENTS TO STUDY SPACE**

- a. Explain why we would want to do experiments here vs. other locations in space.

### **GRAPHS/DATA TABLES ASSOCIATED ASTRONOMY TOPICS**

- a. Be able to analyze charts/graphs/data tables to determine information about space studies.

### **Helpful Hints:**

Use in-class notes/activities and online activities to review for this assessment! :)

Practice problems: (See class website for practice problems).