Name:\_\_\_\_\_\_\_\_\_\_\_\_\_

**Solar System Study Guide**

Define on a new sheet of paper: asteroid, comet, meteoroid, astronomical unit, period of revolution, period of rotation, greenhouse effect

Fill in the blank:

There are \_\_\_\_\_\_\_\_\_\_ of stars in each galaxy and \_\_\_\_\_\_\_\_\_\_\_\_\_ of galaxies in the Universe.

If you were to travel to another planet your mass would \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Your weight would\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Objects that have more mass have a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ gravitational pull than objects with less mass. Objects that are closer together have a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ gravitational pull than objects farther apart.

Short Response ( on the paper you did vocab on)

1. What is the unit of distance used inside of the solar system called? What distance does it represent?

2. What is the unit of distance used outside the solar system? What does that unit represent (the distance \_\_\_\_\_\_\_\_\_\_ travels in a \_\_\_\_\_\_\_\_\_).

3. What is space mostly made up of?

4. Are models of the solar system seen in textbooks accurate? Give at least two reasons to support your claim.

5. Draw four pictures showing the four stages of the formation of the solar system. Describe each picture with one sentence explaining what is happening.

6. What is the current model of the solar system called? Why is it called that?

7. What was the old model of the solar system called? Why?

8. Why did the model change?

9. Make a table that shows the moons and atmospheres of the four inner planets.

10. What does an atmosphere do for a planet?

11. Place these objects in order from smallest to largest:

star, solar system, planet, galaxy, asteroid, dwarf planet, universe

12. List at least two reasons why Pluto is no longer considered a planet.

13. List at least two pieces of evidence to support Accretion Theory (how the solar system was formed).

14. What is the shape of the orbits of the planets? Which direction do they orbit in?

15. Differentiate between period of rotation and period of revolution. How long is Earth’s rotation? Its revolution?