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

**Space Review**

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?

16. What is another name for Earth’s revolution around the Sun?

17. What is the name for Earth’s “spin” around its own axis?

18. What is the shape of Earth’s orbit around the Sun? Draw the shape and label the distances.

19. What is the degree of Earth’s tilt (from vertical)?

1. What causes Earth’s seasons? **Use the words temperature, seasons, direct sunlight, indirect sunlight, and concentration of light in your answer.**
2. What is the name for the times of year when each hemisphere receives the same amount of sunlight?
3. During the December Solstice, which hemisphere receives more direct sunlight and longer days? **Why?**
4. During which month does Florida receive its most direct sunlight?
5. During which months is the Sun directly over the equator?
6. How long does it take for Earth to make one complete revolution?
7. How long does it take for Earth to make one complete rotation?
8. Draw a diagram that explains why summer occurs in June for the northern hemisphere. Label the Northern and Southern Hemispheres. Model **MUST** be accurate and show sunlight, the Sun, and the Earth (with axis and equator).