

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

Date: \_\_\_\_\_



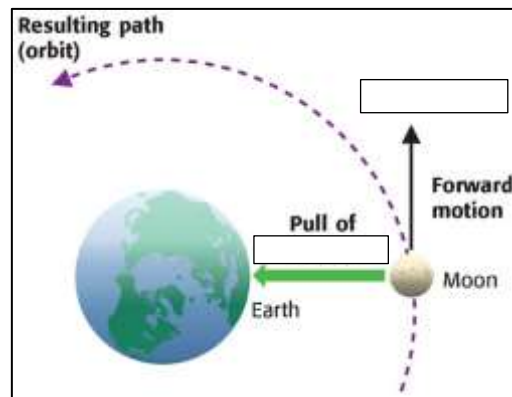
## Astronomy-Solar System, Galaxy, and Universe- Guided Notes

1. Earth is the \_\_\_\_ planet out of \_\_\_\_ planets.
2. Our solar system includes 8 planets, their \_\_\_\_\_ (or moons), asteroids, and any other objects that \_\_\_\_\_ the Sun.
3. A mnemonic to help remember the 8 planets is:
4. My very energetic mother just served us nachos. The 8 planets, in order from the closest to the sun to the farthest away are:

|       |       |
|-------|-------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

5. Our star, the Sun, is what color? \_\_\_\_\_

6. Put the following terms in the correct boxes:  
inertia, gravity



7. Our sun and solar system are  
Part of the \_\_\_\_\_  
Galaxy.

8. We are located about 2/3 out from the center of one of the \_\_\_\_\_  
\_\_\_\_\_.

9. Our sun is a \_\_\_\_\_-aged, \_\_\_\_\_ sized star.

10. A galaxy is a group of dust, gases, and million/billions of \_\_\_\_\_.

11. Our galaxy is one of \_\_\_\_\_ of galaxies that are part of the \_\_\_\_\_.

12. Galaxies have 3 shapes: Draw and label the 3 types of galaxies.



13. A light year (ly) is the distance \_\_\_\_\_ travels in one \_\_\_\_\_.

14. Our solar system is \_\_\_\_\_ light years from the center of the Milky Way Galaxy.

15. It takes our solar system 230 \_\_\_\_\_ years to make one orbit (revolution) around the center of the galaxy.

16. Our Milky Way belongs to a cluster of 32 galaxies called the \_\_\_\_\_.

17. A group of clusters makes a \_\_\_\_\_.

18. The universe is a term used to refer to all of \_\_\_\_\_ and \_\_\_\_\_ and its contents. (Basically everything!).

19. Some physicists are trying to find evidence to support the idea of “\_\_\_\_\_”, or multiple universes.

20. In the box below, make a picture representation that shows the size of objects in relation to each other (larger or smaller), with the box representing the Universe. Include the following: Earth, Solar System, Milky Way Galaxy, Local Group, Super Group.

### The Universe

\*Not to scale