**Answer the questions. You can use your Science journal or textbook to help.**

|  |  |
| --- | --- |
| axis | An imaginary straight line that runs through the center of the Earth at its poles. |
| rotate | To spin around on an axis. |
| revolve | To travel in a closed path. |
| orbit | The closed path that an object travels around another object. |
| waxing moon | The moon appears to grow because we can see more of its lighted surface. (*think wax ON)* |
| waning moon | The moon appears to get smaller because less of the lit surface can be seen. *(think whine when things go away)* |
| new moon | Shows none of the moon’s lighted side.  |
| full moon | Shows all of the moon’s lighted side. |
| crescent moon | Only a sliver of the moon’s lighted side is shown. |
| gibbous moon | Only a sliver of the moon’s lighted side is NOT shown. |
| quarter moon | Half of the moon’s lighted side is shown. |
| solar system | A group of objects in space that orbit around a central star. |
| planet | A large object that orbits the sun in a consistent path. |
| constellation | A group of stars that form a “picture”. |
| telescope | A tool used to observe objects in space. |

* What two ways does the Earth move?
* How do we get our day and night?
* Why do we have seasons?
* What are the phases of the moon? Label them. (full, new, crescent, gibbous, waxing, waning)



sun

* What does the color of a star tell us?

Blue- White- Yellow- Orange- Red-

* Planets in order according to the distance from the sun:

1- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 6- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 8- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* Planets in order according to size (smallest to largest):

1- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 6- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 8- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* What separates the inner planets and outer planets?
* What are the differences between inner planets and outer planets?
* Choose one planet that is your favorite. Be able to explain WHY with at least 3 details.

My favorite planet is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. It is an inner/outer planet. It is my favorite planet because

fact #1-

fact #2-

fact #3-

For all these reasons, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is my favorite planet.

|  |  |
| --- | --- |
| Earth rotates on its axis (day & night) | 24 hours |
| Moon orbits Earth (moon phases) | 29 ½ days |
| Earth orbits Sun (seasons) | 365 ¼ days |
| Leap Year | every 4 years because 4/4 = 1 more day |