Astronomy- Unit 1 –

Galaxies and Milky Way Notes

Quick Questions:

|  |  |  |
| --- | --- | --- |
| What is the difference between inertia and gravity? | What is the cause of the seasons? | What is the difference between the Earth’s orbit (revolution) and it’s rotation? |

**GAlAxy**

Galaxy: A large group of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ , \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and millions of \_\_\_\_\_\_\_\_\_\_\_\_\_\_ .

3 Main Shapes:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Most galaxies Older Stars Younger

Looks like:

Our Home is the only way! The *Milky Way* that is….

A Light Year refers to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (light travels 6 trillion miles in \_\_\_\_\_\_\_\_\_\_ year)

The Milky Way is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ light years wide and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ light years thick

WE ARE \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ light years from the center.

We are located on a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the Milky Way

**(Fun Fact: If every star in the Milky way was a grain of salt, they would fill an Olympic sized swimming pool.)**

Galaxies exist in groups called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

We have \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ galaxies in our cluster called the Local Group.

The Milky way is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ largest galaxy in this group (Andromeda is the largest).

Ending Question:

***Put the following in order from smallest to largest***: Milky Way Galaxy, Universe, Earth, Solar System, You