

# May 23, 2019

- 1) Finish Secrets of Space Probes Video
- 2) Info on galaxies
- 3) The Future of the Milky Way Video Part 1
- 4) Complete T/F video questions

## Warm-Up



A cosmic year is the amount of time it takes the Sun to revolve around the center of the **Milky Way**, about \_\_\_  million years.

**Test next week on Space**

# Space Probes Video



While you are watching take note of several things:

Why Space is inhabitable

Different Types of Space Probes

Examples of Names of Probes

What various probes are being used for

Examples of discoveries probes have made

Also you will be filling out the worksheet provided.

# Galaxies



- A **Galaxy** is a huge collection of gas, dust and hundreds of billions of stars and planets.
  
- Using a system invented by Edwin Hubble, astronomers classify galaxies into three major types:
  - > **Spiral**
  - > **Elliptical**
  - > **Irregular**

# Spiral Galaxies



- Look like a pinwheel from above
- Looks like a plate with a bulge from the side
- Has many long “arms” spiraling out from the centre
- Ex: Ours – the Milky Way Galaxy

The group of stars that our Sun belongs to is called the **Milky Way Galaxy**. The **Milky Way Galaxy** contains the sun; eight planets; billions of stars, and numerous other objects such as asteroids, dwarf planets, moons etc.

It is estimated that there are at least 400 billion stars in the Milky Way Galaxy. The Milky way is disk shaped with the sun near the outer part of the disk.



## Elliptical Galaxies



- Range in shape from a perfect sphere to a stretched-out ellipse
- Contain some of the oldest stars in the universe
- Over half of all galaxies are elliptical and they make up the larger ones

## Irregular Galaxies

- A “none of the above” category; neither spiral nor elliptical
- Are made up of newly forming stars as well as old stars

