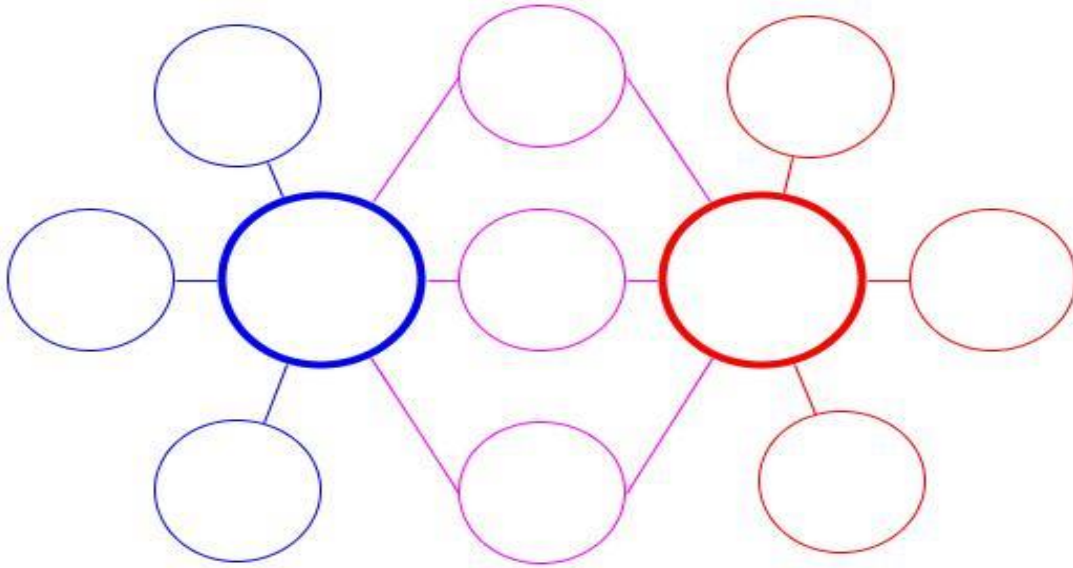


**Unit 1: Astronomy STUDY GUIDE**

**Part 1 – Early Models**

1. Heliocentric vs Geocentric Models of the universe/solar system. Complete the Double Bubble.

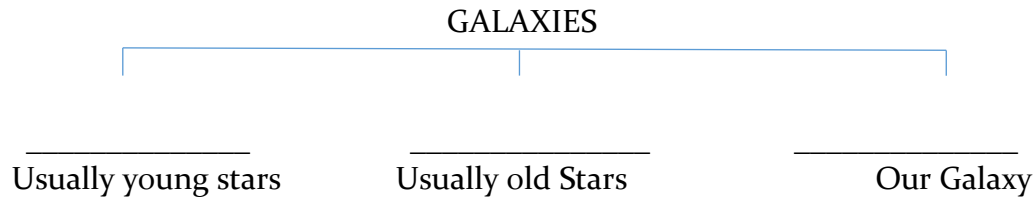


2. According to the big bang theory, how old is our universe?
3. What does the **Big Bang Theory** state about our universe? Is the universe currently expanding or contracting?
4. List in order from smallest to biggest: Earth, Universe, Jupiter, Galaxy, Solar System, Dwarf Planet, Cluster

**Part 2 – Galaxies**

1. What is the name of our **galaxy**?
2. What does it look like (shape)?
3. Where are we located in our galaxy?
4. What are the shapes of the other 2 types of galaxies?

Complete the tree map to classify the three types of galaxies. *MAKE SURE TO DRAW A PICTURE FOR THE MISSING TWO GALAXIES*



### **Part 3 – Planets**

1. List the planets in order, starting from the Sun?  
(remember the sun is a star, and moons are not planets)
2. What two forces allow the planets to stay in their orbit?
3. What do all inner planets have in common?
4. What do all outer planets have in common?
5. List the inner planets and give 3 distinguishing characteristics for each.
6. *What is located between Mars and Jupiter?*

### **Part 4—Outer planets**

1. List the outer planets and give 3 distinguishing characteristics for each.
2. What are Saturn's rings made of?
3. What planet rotates on its side?
4. What does a comet look like, and how does it form?
5. What is the shape of a comet's orbit?
6. What creates craters?
7. What does a meteor look like, and how does it form?
8. What are asteroids, and where are most found?
9. What is a meteoroid? Meteorite? Meteor?
10. What is the Kuiper Belt?