

## **Celestial Objects**

**Introduction:** The universe is anything that exists in any place.

**Problem:** What are the components that make up the universe?

**Definitions:** On a separate piece of paper define the following:

Astronomy; Celestial Object; Universe; Galaxy; Solar System; Star; Planet; Sun; Asteroid; Comet; Moon; Orbit; Ellipse; Rotation; Revolution; and Constellation.

### **Procedures:**

1. On a another piece of paper draw a representation of the relationship between the Universe; the Solar System; the Galaxy; and a Star.
2. Next, draw a model of a spiral galaxy and show where our Solar System would be. Name our Galaxy.
3. Then draw a model of our Solar System. Make sure to place in order the planets, a star (the Sun), asteroids.

### **Conclusion Questions:**

1. List in order the planets from closest from the sun outward.
2. List in order from oldest to youngest: Milky Way Galaxy; Solar System; and Universe.
3. *How does a star differ from a planet?*

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

4. *How are the planets in our solar system classified (grouped or divided)?*

5. *What are comets?*

6. *What is a light year and how and why is it used?*

7. *Explain how the Sun gets its energy.*

**6. Summarize the key concepts in this lab in one paragraph or less.**