

### What Can We See in the Sky?

- the \_\_\_\_\_ is everything that exists, including all matter and energy everywhere
- the study of the universe is called \_\_\_\_\_

### **The Solar System**

- the solar system consists of:
  1. \_\_\_\_\_
  2. \_\_\_\_\_
  3. \_\_\_\_\_
- everything in the solar system is much \_\_\_\_\_ to us than the \_\_\_\_\_ and other objects in the universe
- \_\_\_\_\_ and \_\_\_\_\_ are \_\_\_\_\_, meaning they do not emit their own light (they only reflect the light from the sun)

### **Stars and Planets**

- a star is matter that emits huge amounts of \_\_\_\_\_
- a planet is matter, generally spherical, that \_\_\_\_\_ around a star
- five planets can be seen with the unaided eye:
  - \_\_\_\_\_

### **Measuring Distances in Space**

- the distances in space are so large that special units must be used
- \_\_\_\_\_
  - the average distance between the \_\_\_\_\_ and \_\_\_\_\_
  - about \_\_\_\_\_
- \_\_\_\_\_
  - the distances outside the solar system are even greater than the inner solar system
    - must use an even larger unit than AU
  - the distance a beam of \_\_\_\_\_ can travel in \_\_\_\_\_
  - about \_\_\_\_\_ or \_\_\_\_\_