

Your Guide to the Universe!

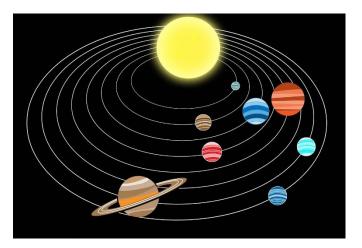
Fill in the blanks to review important features of the observable universe. Need a hint? Check the word bank.

A _____ is a special kind of theatre that lets us view objects in outer space.

Our _____ has eight planets. The four inner planets are small and rocky: _____, ____, and ____. We live on _____, the third planet from the ____. The four outer planets are larger, nicknamed the _____. These four planets are: _____, ____, and _____, and _____.

In order to be a planet, an object must have three certain features:

- 1. The object must orbit a ____.
- 2. The object must have enough ____ so that its gravity squeezes it into a _____.
- 3. The object's gravity must _____ other objects from its orbit.

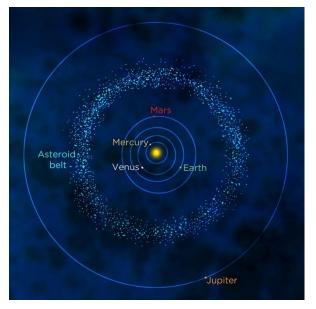




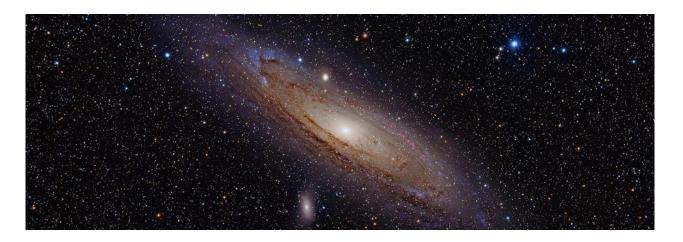
There are also objects orbiting the Sun that do not meet the definition of a planet, called ______. The most famous of these is _____, but there are others called Ceres, Eris, Makemake, and Haumea.

Pluto orbits beyond Neptune, in a part of the solar system called the _____, and even farther out on the edge of the solar system is the _____. Large bodies of ice and rock called _____ come from these areas and melt and freeze and they orbit the Sun.

Between the orbits of Mars and Jupiter, there are millions of rocky objects called ______. Some of these can be huge bodies of rock, but many of them are smaller than your hand! A piece of rock or metal that enters Earth's atmosphere is called a _____, and if it hits the ground, it becomes a _____.



Our Sun isn't the only star. A collection of billions of stars is called a _____, and there are billions of galaxies in the entire _____. Astronomers estimate that in all the galaxies across the observable universe, there are more than 16 septillion stars. That's 16,000,000,000,000,000,000,000,000!!!



Word Bank (some words will be used more than once):

Asteroids Clear Comets Dwarf planets Earth Galaxy Gas giants Jupiter Kuiper Belt Mars Mass Mercury Meteor Meteorite Neptune Oort Cloud Planetarium Pluto Saturn Solar system Sphere Star Sun Universe Uranus Venus