Planets and Dwarf Planets

By Shauna Hutton

ow! Technology has improved so well in the last several years that we keep finding more and more objects in our solar system! Because of this, scientists have had to come up with new categories for objects in space. This included reclassifying Pluto as a dwarf planet, in 2006.

The eight planets in our solar system are classified as inner planets (Mercury, Venus, Earth, and Mars) and outer planets (Jupiter, Saturn, Uranus, and Neptune).

The International Astronomical Union (IAU) gives the new definition of planet as an object in space that:

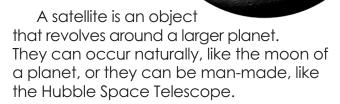
- is in orbit around the sun
- is nearly round in shape
- has cleared the neighborhood around its orbit
- is not a satellite

Each planet travels around the sun in a specific path, called an orbit. "Clearing the neighborhood around its orbit" means there are no objects similar to the planet at roughly the same

In other words,
a planet is not
located in an
asteroid belt
or surrounded
by clusters of
other space
objects.

distance from the Sun.

MakeMake



There are currently five dwarf planets listed. They are: Ceres, Pluto, Eris (pronounced ee'-ris), MakeMake (pronounced mah- kee-mah-kee), and Haumea (pronounced hah-oo- may-ah).

Eris was a very important discovery in 2005. Since it was larger than Pluto, some astronomers thought it should be considered a planet. However, since Pluto and Eris are located in an asteroid belt, other astronomers began to think maybe Pluto and Eris were both very large asteroids. In 2006, astronomers decided it was time to update the current definition of a planet and create the new category of dwarf planets.

Dwarf planets are similar to planets except they don't clear their orbit like planets do. The IAU defines a dwarf planet as an object in space that:

- is in orbit around the Sun
- is nearly round in shape
- has not cleared the neighborhood around its orbit
- is not a satellite

This is a very exciting time. New objects in space are still being discovered!
Scientists say there will likely be more dwarf planets announced in the next few years.
What will be the name of the next dwarf planet? What name would you choose?

Name:

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Name the four inner planets.	·
and	
. Name the four outer planets	
and	
3. Name the five dwarf planets	
	and
I. According to the IAU, how is	a planet different from a dwarf planet?
According to the article, whi	ich object would not be considered a satellite?
a. Earth's moon	b. Hubble Space Telescope
c. Pluto	d. Titan, Saturn's largest moon
5. What is an orbit?	

Name:

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Write true or false for each statement.		
1. Both planets and dwarf plan	nets revolve around the Sun.	
2 . Dwarf planets can be any sh	nape except round.	
3. Dwarf planets do not clear th	ne neighborhood around its orbit.	
4 . Dwarf planets are not satellit	tes.	
5. A planet's path around the s	sun is called an orbit.	
6. Pluto is larger than Eris.		
7. Jupiter and Saturn are inner	planets.	
8. Earth and Mars are inner pla	inets.	
9 . In 2006, Pluto was reclassified	d as a dwarf planet.	
10 . Satellites can be natural or man-made.		
11. There are a total of nine pla	anets in our solar system.	
12 . The Hubble Space Telescop	pe is a satellite.	