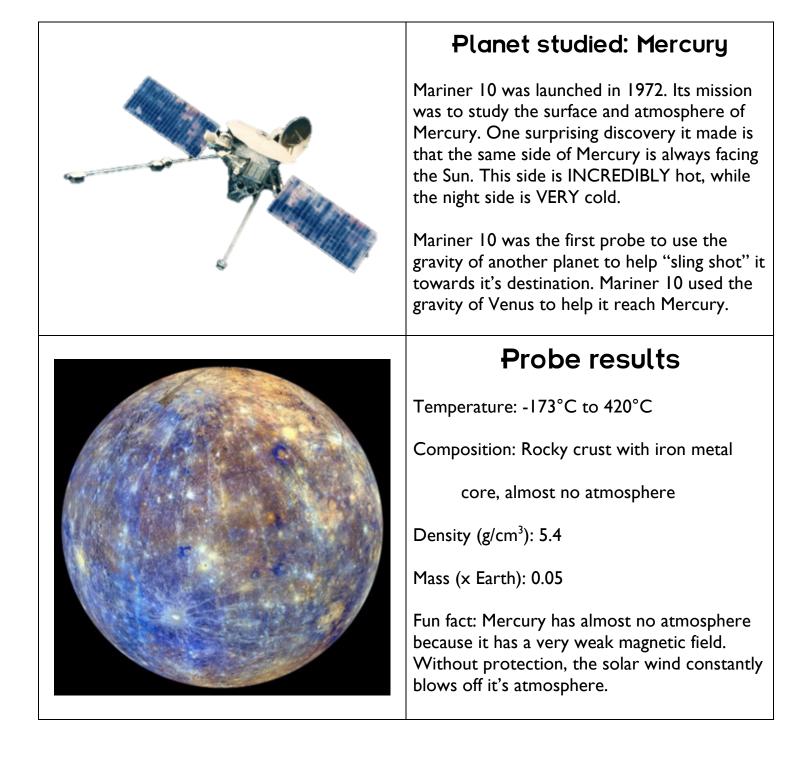
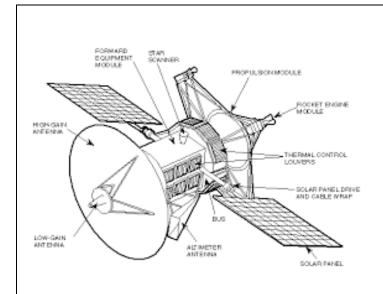
Mariner 10



Magellan



Planet studied: Venus

Magellan reached Venus in 1990. Its mission was to make a global map of the surface of Venus. This is very hard to do because Venus has such a THICK atmosphere. Magellan confirmed that Venus is actually a rocky planet covered in clouds.

In 1994, Magellan was crashed into Venus on purpose. As it flew towards the surface it collected data on Venus' atmosphere.

Probe results

Temperature: 461°C

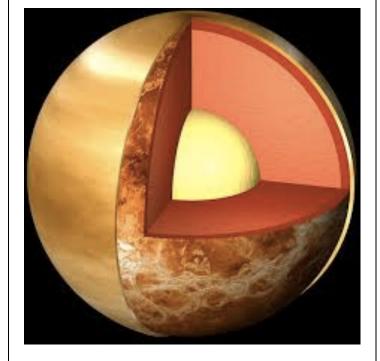
Composition: Rocky crust with iron metal

core, EXTREMELY dense atmosphere

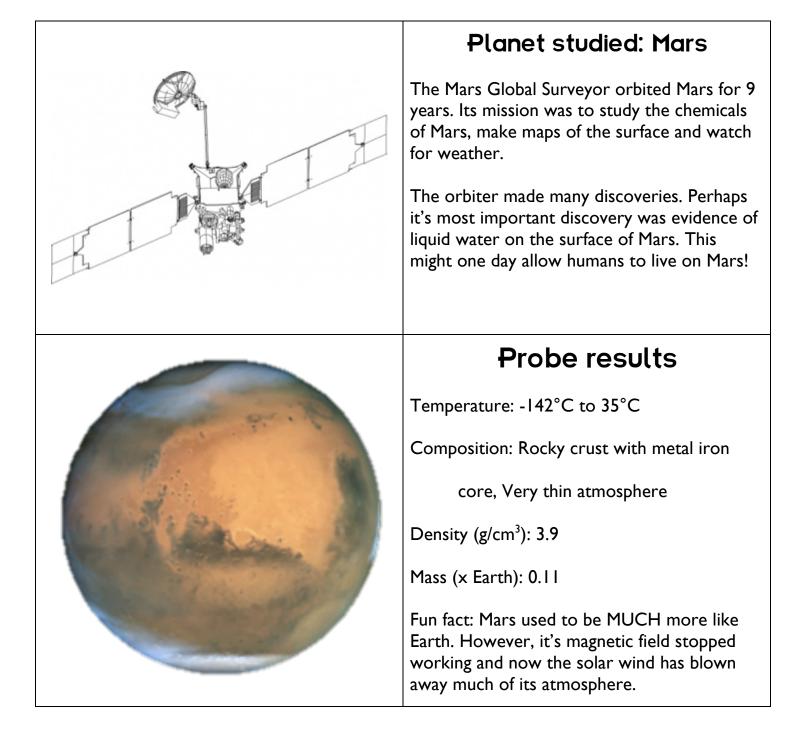
Density (g/cm³): 5.2

Mass (x Earth): 0.82

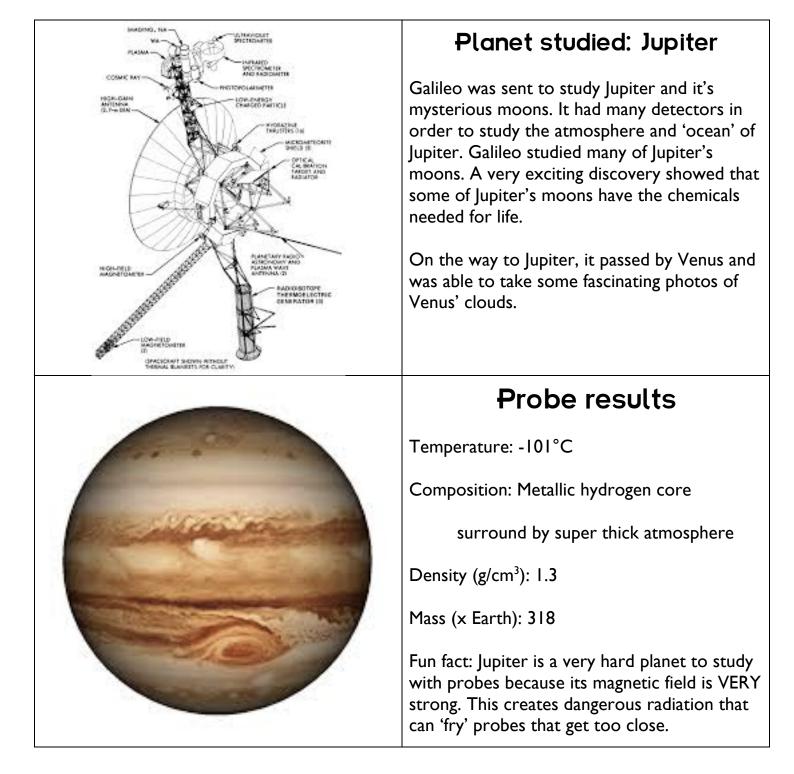
Fun fact: Venus is the hottest planet even though Mercury is closer to the Sun. Venus is so hot because its thick atmosphere has created 'run away' **global warming**.



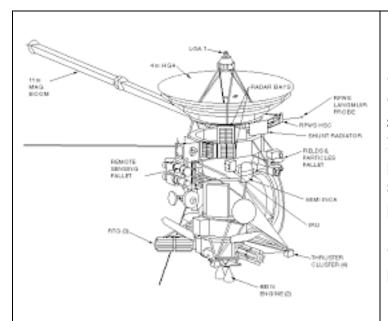
Mars Global Surveyor



Galileo



Cassini



Planet studied: Saturn

Cassini has been studying space since 1997! On its way to Saturn, Cassini flew by Jupiter and studied the planet for 6 months. Then in 2004 it reached Saturn and began to study the planet and its moons. Cassini also used a smaller probe to study the moon Titan (a place where there might be life).

Cassini is now studying Saturn to watch as the planet completes a full year of seasons.

Probe results

Temperature: -145°C

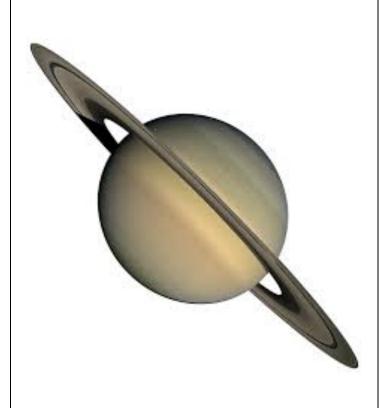
Composition: Metallic hydrogen core

surround by super thick atmosphere

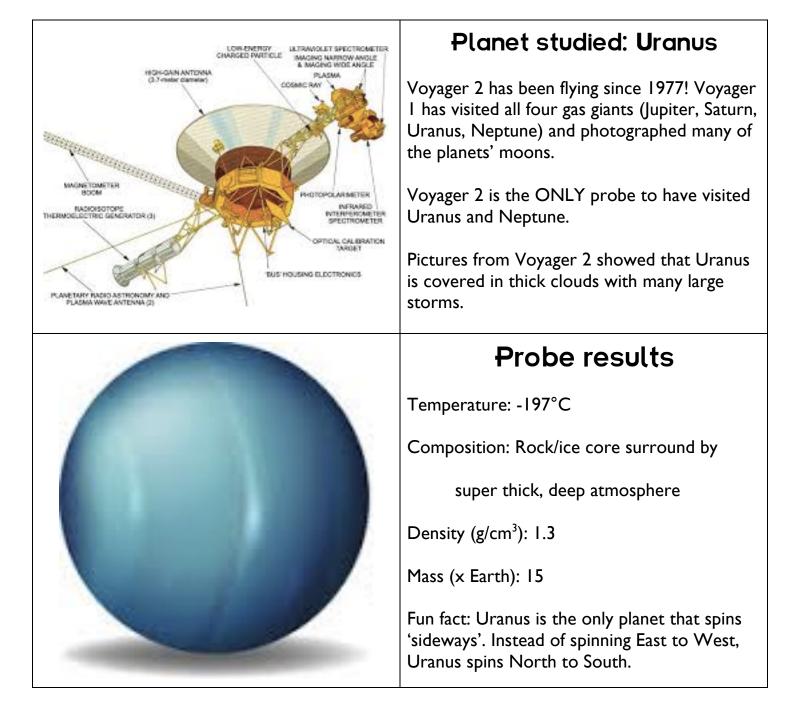
Density (g/cm³): 0.7

Mass (x Earth): 95

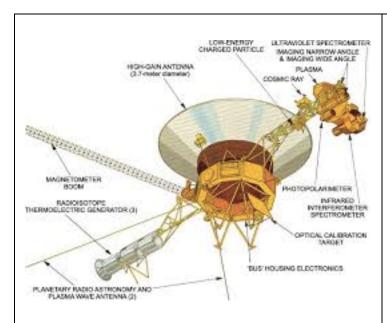
Fun fact: Most people know Saturn because of its rings. But did you know that the rings of Saturn contain more water than ALL the water on Earth? Or did you know that Saturn's density means it would float on water? Crazy!



Voyager 2



Voyager 2





While visiting Neptune, Voyager 2 discovered the "Great Dark Spot". The spot is was a storm similar to the "Red Eye" on Jupiter.

Voayger 2 was also able to analyze Neptune's atmosphere. It found that Neptune and Uranus are very similar. Both planets have methane (a gas) in their atmosphere that makes them look blue.

Probe results

Temperature: -200°C

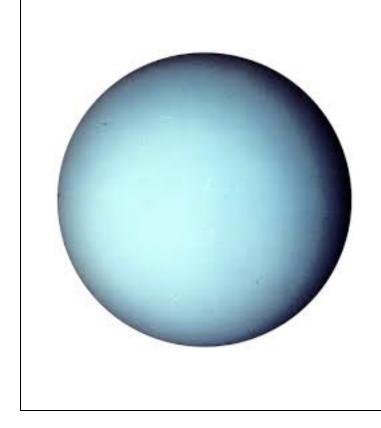
Composition: Rock/ice core surround by

super thick, deep atmosphere

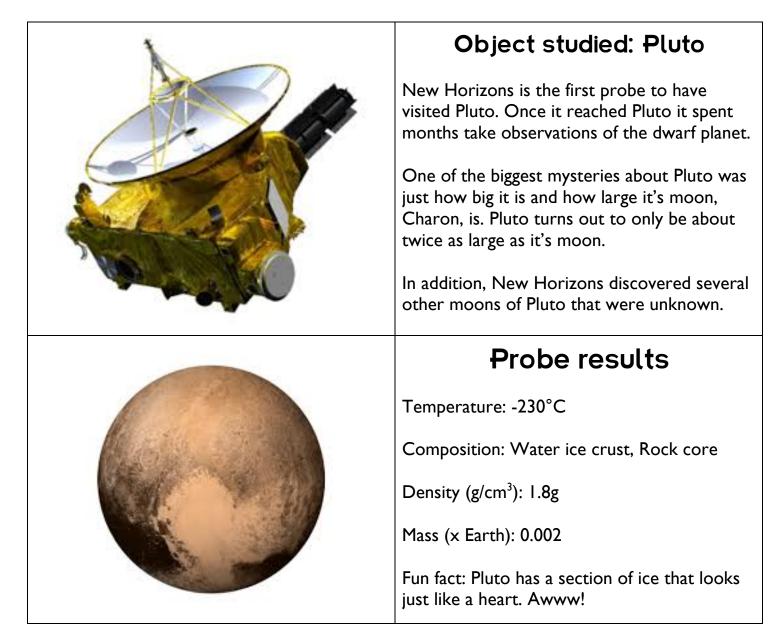
Density (g/cm³): 1.6

Mass (x Earth): 17

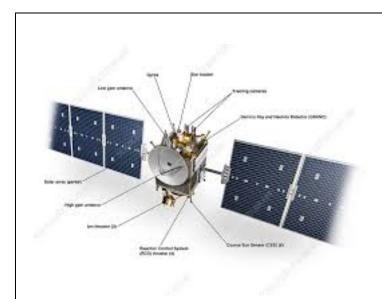
Fun fact: Neptune cannot be seen in the night sky by the naked eye. A mathematician discovered Neptune when he noticed that Uranus's orbit didn't make sense. He predicted Neptune existed with math, and later telescopes were able to spot the planet.



New Horizons



Dawn



Object studied: Ceres

Dawn visited Ceres, the largest Dwarf Planet in the asteroid belt, in 2015.

During it's time studying Ceres, Dawn sent back data that suggests Dwarf Planets might have or once have ad oceans, just like planets. Ceres also has "organic chemicals". Liquid oceans and organic chemicals are both ingredients for life.

Probe results

Temperature: -153°C

Composition: Dusty outer crust, water ice

layers, Rocky inner core

Density (g/cm³): 2

Mass (x Earth): 0.000,15

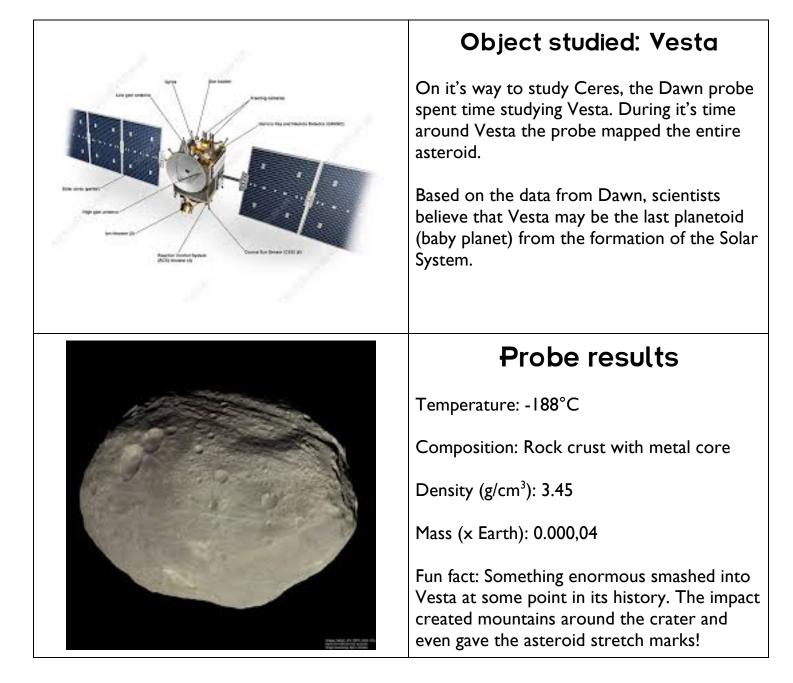
Fun fact: Ceres was the first asteroid to be discovered and may had an ocean below it's surface!



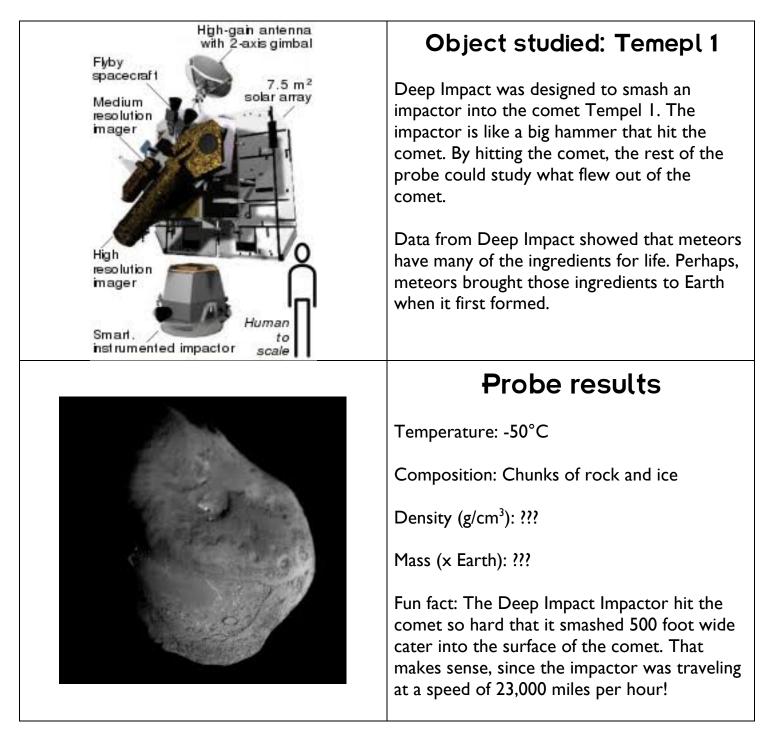
OSIRIS-REx

	Object studied: Bennu
	OSIRIS-REx was designed to gather a sample from Bennu and return the sample to Earth. This would be the first sample of an asteroids returned to Earth for study.
	Bennu is interesting to scientists because it is a "time capsule". Bennu was formed at the start of our solar system and has not changed much since. A sample from Bennu would help us determine how the Solar System and life on our planet came into being.
	P robe results
	Temperature: -I4°C
A	Composition: Chunks of rock
	Density (g/cm³): 1.9
	Mass (x Earth): 0.000,000,000,000,000,8

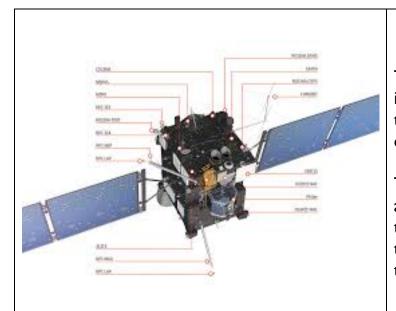
Dawn



Deep Impact



Rosetta



Object studied: 67P

The Rosetta probe carried a small lander on it's way to the comet 67P. Once it reached the comet, the lander successfully set down on the surface of the comet.

The Rosetta probe followed the comet 67P as it traveled towards the Sun and observed the comet releasing gas and dust. Data from this gas and dust shows that the water ice on this comet is different than water on Earth.

Probe results

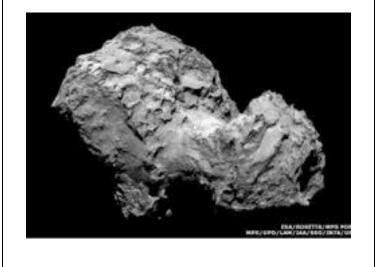
Temperature: -60°C

Composition: Chunks of rock and ice

Density (g/cm³): 0.5

Mass (x Earth): 0.000,000,000,000,7

Fun fact: 67P is over 5 billions years old! That's almost as old as the Solar system. Also, it's shaped like a rubber duck.



MISSION

Object studied: PLANET
P robe results
Temperature:
Composition:
Density (g/cm³):
Mass (x Earth):
Fun fact: