

SOLAR SYSTEM



COME AND LEARN MORE
ABOUT THE PLANETS!



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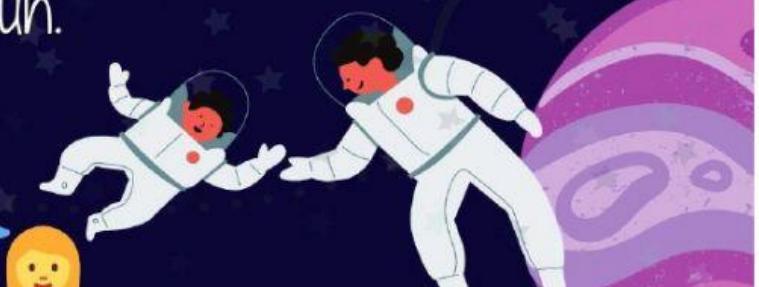
WHAT IS A PLANET?

Pluto like Ceres were considered planets until new discoveries sparked a scientific debate about how best to describe them. The most recent definition of planet was adopted by the International Astronomical Union in 2006.

★ It says that a planet must do three things:

1. It must orbit a star (in our cosmic neighborhood, the Sun).
2. It must be large enough to have enough gravity to force it into a spherical shape.
3. It must be large enough so that its gravity removes any other objects of similar size near its orbit around the Sun.

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ACTIVITY 1



Answer the following questions about the text with true or false

1. Pluto and Ceres were considered planets?



2. The definition of planet was given in 2006 by the international astronomical union?



3. A planet must rotate a star?



4. Does a planet have to be big enough to have enough gravity?



5. A planet must be small enough for its gravity to remove any other object of similar size.



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SOLAR SYSTEM



Our planetary system is located in an outer spiral arm of the Milky Way galaxy.

The Latest Dragonfly Launch Moved to 2027 Our solar system consists of our star, the Sun, and everything bound to it by gravity – the planets Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune, dwarf planets such as Pluto, dozens of moons and millions of asteroids, comets and meteoroids. Beyond our own solar system, we have discovered thousands of planetary systems orbiting other stars in the Milky Way.

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ACTIVITY 2

- Order the planets

- Identify the planets and write their names



Saturn

Neptune

Mercury

Jupiter

Uranus

Venus

Mars

Earth



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3 NEED-TO-KNOW THINGS ABOUT THE SOLAR SYSTEM

1

ONE OF BILLIONS

Our solar system is made up of a star, eight planets and countless smaller bodies such as dwarf planets, asteroids and comets



2

MEET ME IN THE ORION

Our solar system orbits the center of the Milky Way Galaxy at about 515,000 mph (828,000 kph).

We're in one of the galaxy's four spiral arms.

3

A LONG WAY ROUND

It takes our solar system about 230 million years to complete one orbit around the galactic center.



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ACTIVITY 3

• MATCH



- **Galactic center**
- **Milky Way**
- **Star**
- **230 million**



- Complete the following sentences with the words given

1. Our solar system is made up of a



2. Our solar system orbits the center of the



3. Our solar system takes about years to complete one orbit around the galactic center

