



Be the best that we can be.

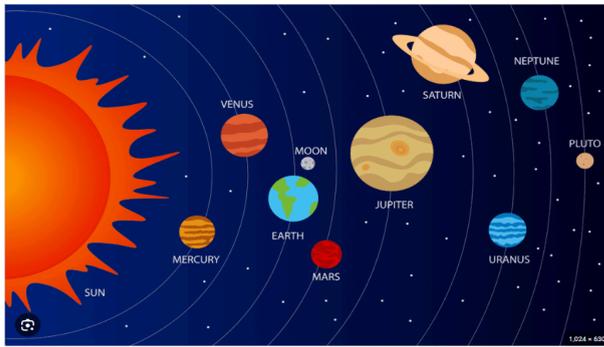
EBJ Knowledge Organiser Science Year 5

Spring 1 Earth and space



Space Overview

There are 8 planets in our Solar System (Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune). Pluto is a dwarf planet. They all orbit the Sun, which is a star, and they all have moons. The first four planets are relatively small and rocky, while the four outer planets are gas giants (Jupiter and Saturn) or ice giants (Uranus and Neptune). There are also asteroids, meteoroids and comets in the Solar System. The Solar System is in a galaxy called the Milky Way. The galaxy is in the universe.



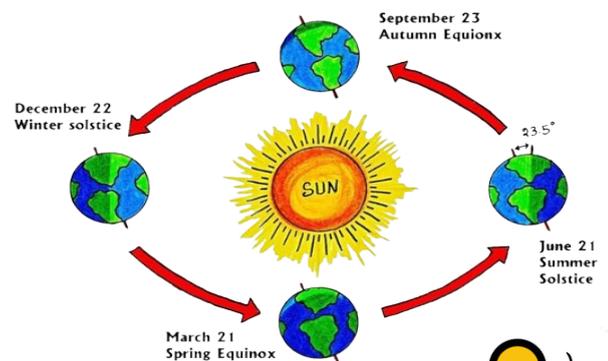
An easy way to remember the names of planets in order is: **My Very Easy Method Just Speeds Up Naming (Planets)**

What makes a day?

The Earth rotates one complete turn every 24 hours to give us day and night. Daytime occurs when the side of the Earth is facing the sun and night occurs when the side of the Earth is facing away from the sun. When Britain faces the Sun it is daytime in Britain but the other side of the world is in darkness. So, in Australia it is the middle of the night. Earth rotates on an axis.

During the winter, the North Pole is tilted away from the Sun's rays. As Earth travels around the Sun, the tilt of Earth changes.

By June, the North Pole is tilted towards the Sun and the days become very long. Earth takes a year to orbit the Sun and it is the tilt which creates the seasons.



Key vocabulary

daytime, geocentric, heliocentric, night-time, orbit, planet, solar system, star, Sun, time zone

What is the moon and what does it do?

The Moon orbits the Earth anticlockwise and takes approximately 28 days. The Moon spins once on its axis every time it orbits Earth. This means that we only see one side of the Moon. The Moon has different phases depending on where it is in its orbit. At different times, the moon appears to be in different shapes because the sun lights up different parts of the moon as it moves around the Earth. The Moon's gravity causes high and low tides.

When the Moon passes between the Sun and Earth, the shadow cast by the Moon falls on the Earth's surface and we would no longer be able to see the Sun. This is called a solar eclipse.

Read all about it. Can you find these books in the local library?



PHASES OF THE MOON

