

# Science Year 5 Spring 1: Earth and Space

## Key vocabulary to learn and use in your learning

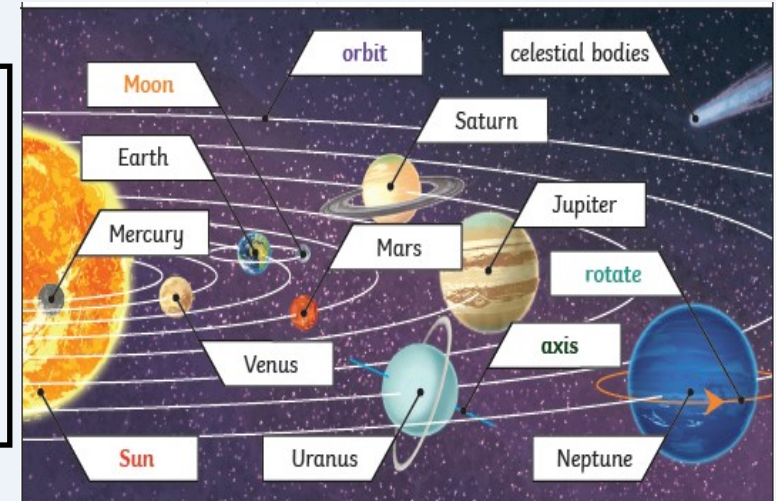
Word	Definition
solar system	The collection of 8 planets and their moons in orbit round the sun.
astronomy	The study of space and the physical uni-
axis	An imaginary line that the Earth revolves on around.
orbit	The curved path around a moon, planet
rotation	The spinning of an object in a circular
crescent moon	A thin curved shape of moon like a sliver.
waxing	The growing of the moon until a full moon is
waning	The decreasing of the size of the moon after a full moon.
solar eclipse	When you can not see the sun as it is obscured by the moon.



Our Solar System

Yuri Alekseyevich Gagarin was a Soviet Air Forces pilot and cosmonaut who became the first human to journey into outer space, achieving a major milestone in the Space Race; his capsule Vostok 1 completed one orbit of Earth on 12 April 1961.

The solar system includes the Sun and all the objects that orbit around it due to its gravity. This includes things such as planets, comets, asteroids, meteoroids and moons. The solar system formed around 4.6 billion years ago. There are eight planets in the solar system. The ninth planet (Pluto) was re-classified as a dwarf planet in 2006.



## Key knowledge to know and use

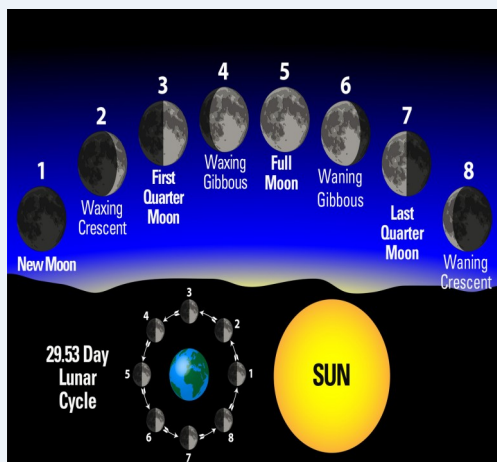
Mercury, Venus, Earth and Mars are rocky planets. They are mostly made up of metal and rock.

Jupiter, Saturn, Uranus and Neptune are mostly made up of gases (helium and hydrogen) although they do have cores made up of metal and rock.

The moon orbits the Earth in an oval-shaped path while spinning on its axis.

The Earth rotates (spins) on its axis. It does a full rotation once in every 24 hours. At the same time that the Earth is rotating it also orbiting (revolving) around the sun. It takes a little more that 365 days to orbit the sun.

## Phases of the Moon



This is the phase of the moon. Around once per month, every 29.53 days to be exact, the phases of the moon make a complete cycle. The phases of the moon depend on its position in relation to the Sun and Earth.