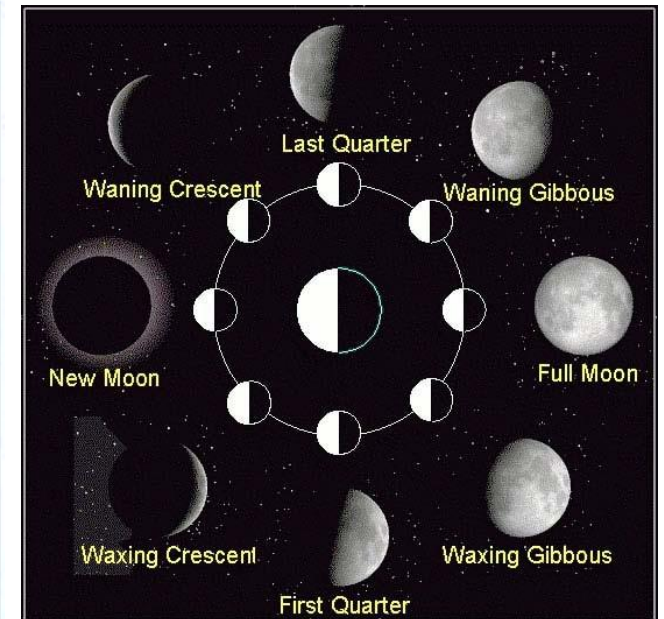
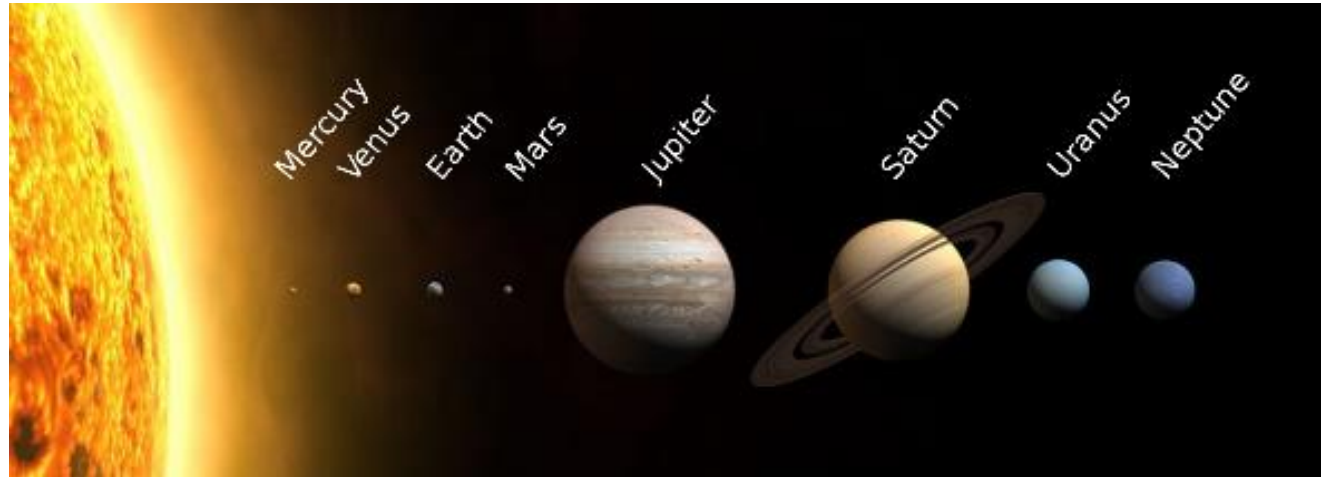


Year 4 - Earth and Space

Key Vocabulary	
Asteroid	A rock that orbits the Sun in a belt between Mars and Jupiter
Astronomer	Someone who studies or is an expert astronomy (space science)
Galaxy	An extremely large group of stars and planets. Our galaxy is called the Milky Way
Geocentric model	A belief people used to have that other planets and the Sun orbited around Earth
Heliocentric model	The structure of the Solar System where the planets orbit around the Sun
Meteorite	A rock from outer space that has landed on Earth
Orbit	The curved path in space that is followed by an object going round and round a planet, moon, or star
Planet	A large, round object in space that moves around a star
Satellite	Any object of body in space that orbits something else
Solar System	The Sun and all the planets that go round it
Sphere	A round 3D shape in the shape of a ball
Star	A large ball of burning gas in space
Sun	A huge star that Earth and the other planets in our solar system orbit around
Universe	The whole of space and the stars, planets, and other forms of matter and energy in it



Key Knowledge

What is the Sun?

- The Sun is a star in the centre of our solar system

What is the Solar System?

- The solar system has eight planets; Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune

How is the Earth related to the Sun?

- The Earth orbits the Sun
- The Earth takes 1 year to orbit the Sun
- The Earth is held in orbit round the Sun by the Sun's gravitational pull

How does the Earth move?

- The Earth spins on its own axis
- The Earth takes 24 hours (1 day) to completely rotate

What causes day and night?

- The Earth spins once in a day
- The side of the Earth facing the Sun is in daytime
- The side of the Earth facing away from the sun is in night time

What causes Sunrise and Sunset?

- The Sun doesn't move - it's us that moves
- Because the Earth is rotating, the sun appears to move across the sky as the day goes on

What is the Moon?

- The moon is a celestial body that orbits a planet
- The Earth has one moon; Jupiter has four Moons and numerous small ones

How is the Moon related to the Earth?

- The Moon orbits the Earth
- It takes about 28 days for the Moon to orbit the Earth
- The Moon is held in its orbit round the Earth's gravitational pull

Why does the moon change shape?

- IT DOESN'T
- It appears to change shape because we cannot always see the side of the Moon that's in sunlight or we can only see part of the sunlit side of the Moon as it orbits the Earth

Significant People

Yuri Gannan

First man in space on the VOSTOK 1 spacecraft in 1951

Valentina Tereshkova

First woman in space on VISTOK 6 in 1963

Neil Armstrong

First man on the Moon in APOLLO 11 in 1969

Mae Carol Jemison

First African American woman to travel in space on ENDEVAOUR in 1992

Tim Peake

Most recent Briton to go into space in 2015

