

Science Organiser Year 5 Term 3 Earth and Space

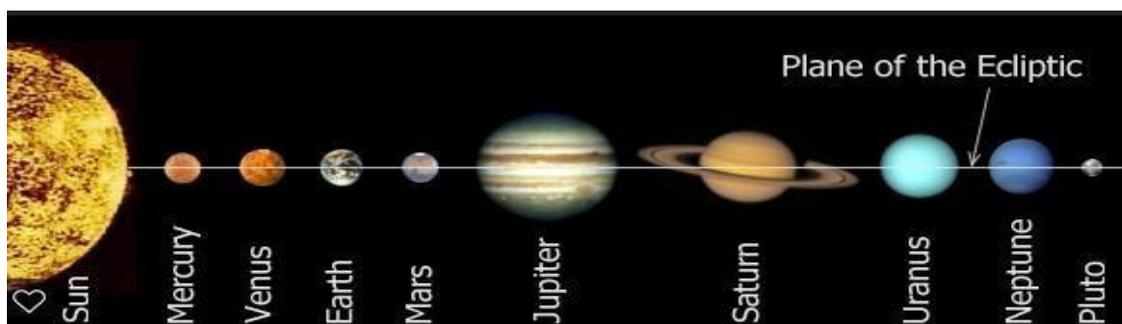
KEY VOCABULARY TO LEARN	
solar system	The solar system consists of the Sun and everything that orbits or travels around the Sun.
Planet	A large object, round or nearly round that orbits a star.
orbit	To move in a regular, repeating curved path around another object.
Sun	A huge star that Earth and the other planets in our solar system orbit around.
star	A giant ball of gas held together by its own gravity.
Moon	A natural satellite which orbits Earth or other planets.
sphere	A round 3D shape in the shape of a ball.
spherical bodies	Astronomical (in space) objects shaped like spheres.
rotate	To spin, for example Earth rotates on its own axis.
axis	An imaginary line that a body rotates around, for example Earth axis runs from the North Pole to the South Pole.
satellite	Any object or body in space that orbits something else, for example the Moon is a satellite of Earth.
Astronomer	Someone who studies or is an expert in astronomy (space science).

The planets in order of their distance away from the Sun are:

Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune. Pluto is a dwarf planet.

An easy way to remember them is:

My Very Educated Mother Just Served Us Nachos!

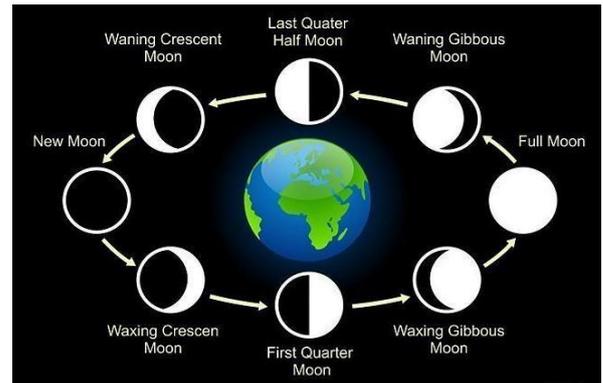


Night and day

- The Earth and the Moon both move. The Earth orbits the Sun once every 365¼ days and spins on its axis once a day.
- The Earth spinning once a day causes night and day. The part of the Earth that faces the Sun is in daylight, and the part that is not facing the Sun is in darkness.

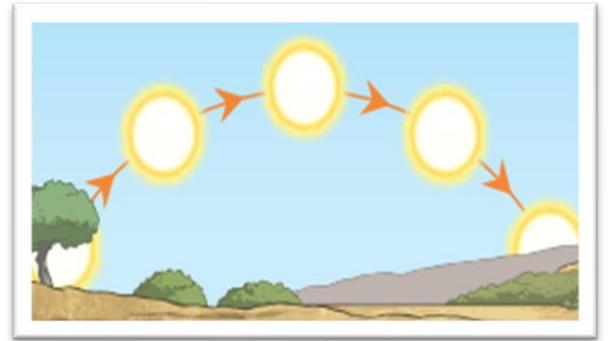
The moon

- The moon reflects the light from the sun. The part of the moon facing the sun is lit up. The part facing away from the sun is in darkness.
- One full cycle of the Moon's phases is approximately 28 days, which is very close to the amount of time we now know as one month.

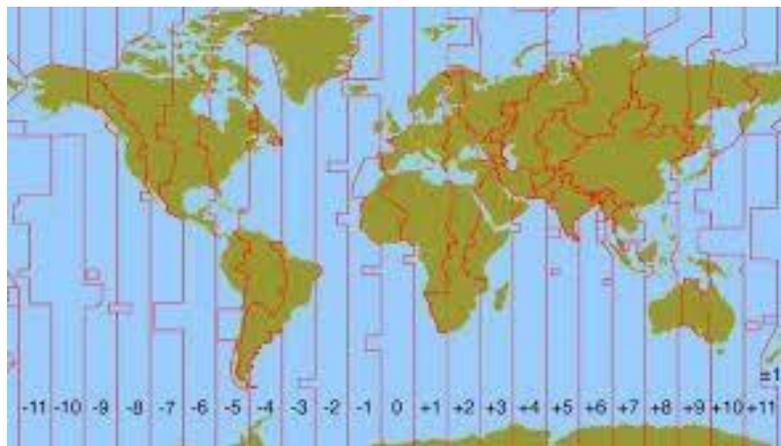


The Sun

- Scientists now believed that the sun is at the centre of the universe. This is called the Heliocentric model.
- The Earth rotates on its axis every 24 hours.
- As the Earth rotates, the sun appears to move across the sky. The Sun is not moving it is us on Earth.



TIME ZONES AROUND THE WORLD:



Why is it night in Australia, when it is day time in England?