



Earth – The planet we live on. It is the third planet from the Sun.

Moon – The moon is the only natural satellite of the Earth.

Orbit – The curved path that an object follows going around a star or planet.

Planets – Large, round objects made of rock or gas that move around the Sun.

Rotate – When an object rotates, it turns (spins) on its axis.

Solar system – The sun and all the planets that orbit around it.

Star – A huge ball of glowing gas in space.

Sun – The Sun is the star at the centre of our solar system. It is not safe to look directly at the sun, even when wearing dark glasses.

## Earth and Space

### Our Solar System:



The Sun is a star at the centre of our solar system.

There are 8 planets in our solar system: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune.

These all orbit (travel) around the sun.



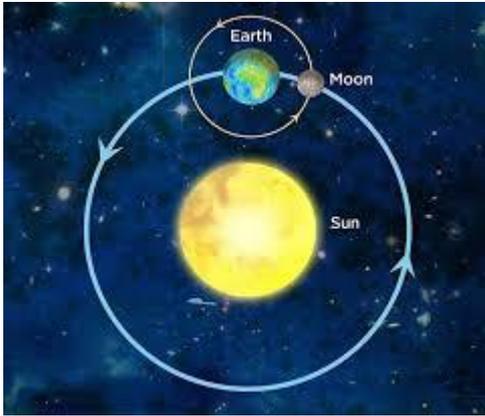
### Nicolaus Copernicus (1473-1543)

Nicolaus was a Polish astronomer and mathematician who formulated the heliocentric model of the solar system that placed the Sun rather than the Earth at the centre of the universe.

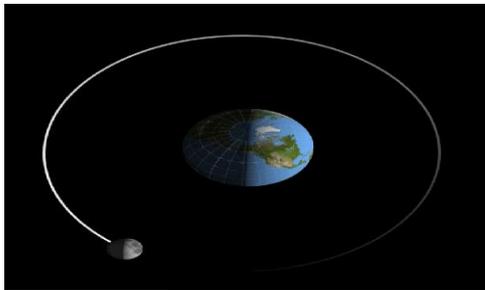
# NPA Knowledge Organiser: Year 5 Science - Autumn 2

The Earth orbits the Sun.

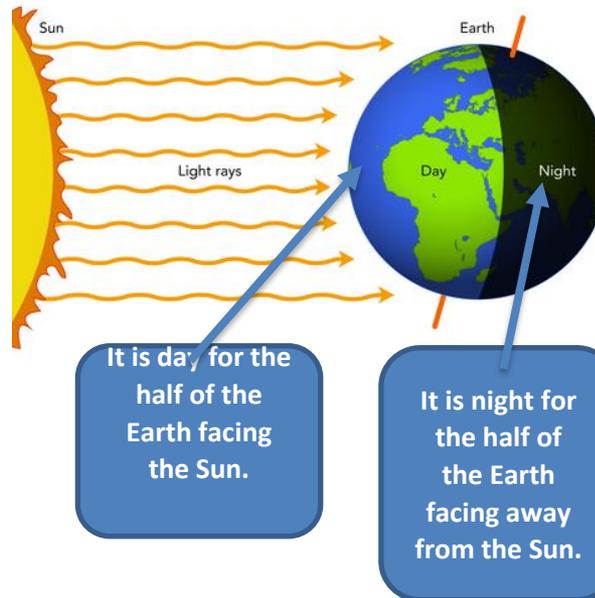
It takes  $365\frac{1}{4}$  days to complete its orbit around the Sun. This is a year.



The moon orbits the Earth. It takes about 28 days to complete its orbit.



The Earth rotates (spins) on its axis once every 24 hours.



By the end of this unit, you will be able to:

- describe the movement of the Earth and other planets relative to the sun in the solar system
- describe the movement of the moon relative to the Earth
- describe the sun, Earth and moon as approximately spherical bodies
- use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky

“Somewhere there is a young boy or girl who will fulfil their dream like I’m going to do.” – Tim Peake