

Vocabulary

Axis	An imaginary line that something rotates around.
Celestial Body	An object outside of earth's atmosphere.
Gravity	The force a planet has to draw other things to its centre.
Orbit	To move in a curved path around something.
Rotate	To spin.
Solar System	The sun and everything that orbits it.
Spherical	To be round and the shape of a 3D circle.
Time Zone	An area on earth that has a specific time.
Waxing	Getting bigger.
Waning	Getting smaller.



Year 5 Earth and Beyond



I believed in a geocentric solar system, where everything orbited the *earth*.

Ptolemy

I believed in a heliocentric solar system, where everything orbited the *sun*.

Copernicus



Gravity causes 8 planets orbit the sun.

What I need to know:

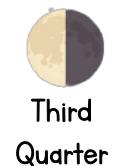
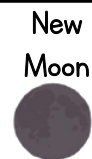
Earth



- Has different time zones because it is daytime on one side of the earth and nighttime on the other.
- Orbits the sun once every 365 ¼ days.
- Takes 24 hours to rotate once causing day and night.
- Day time is caused when a part of the earth is facing the sun and nighttime is caused when it is facing away from the sun.
- Summer** has longer days and shorter nights and **Winter** has shorter days and longer nights.
- Tilts on its axis:
The side that is towards the sun is in **Summer** and the side that is tilted away is in **Winter**.

Moon

- Is a celestial body.
- Orbits the earth in 27 days.
- Has 8 phases.



Our Solar System

- The sun is a star and does not move.
- The sun looks like it rises and sets but it is actually the earth rotating and turning towards and away from the sun.
- The planets orbit the sun at different speeds, some take months and others take years.
- Pluto used to be a planet but was reclassified as a dwarf planet.

