



# Science – Year 5 – Earth and Space



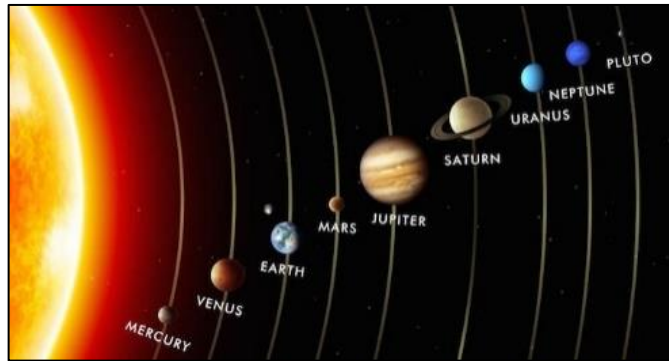
Forces – Understand objects stay in one place or moving with constant speed and direction unless a force acts on them

## Vocabulary

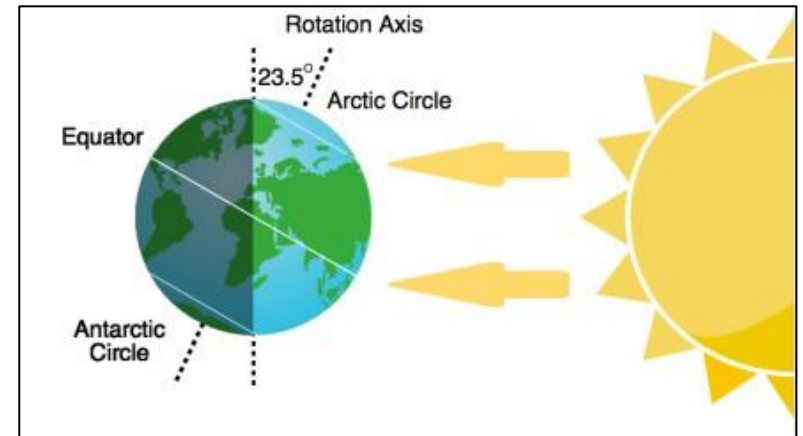
- heliocentric – a model of the Solar System that places the Sun at the center and all the planets orbit it.
- geocentric – an older model of the Solar System that places the Earth at the center and that all other planets, moons and the sun orbit it. This model is now considered incorrect.
- solar system - our Sun and all the planets that orbit it.
- orbit - the curved path in space that is followed by an object going around a planet, moon or star.
- rotate - turns around a central point.

## What is the Solar System?

There are 8 planets in our Solar System (Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune). Pluto is a dwarf planet.

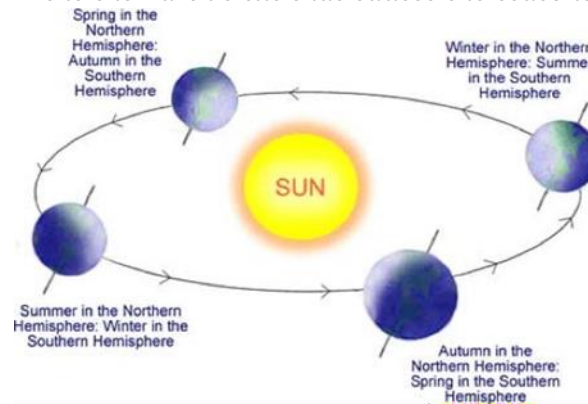


## What causes day and night?

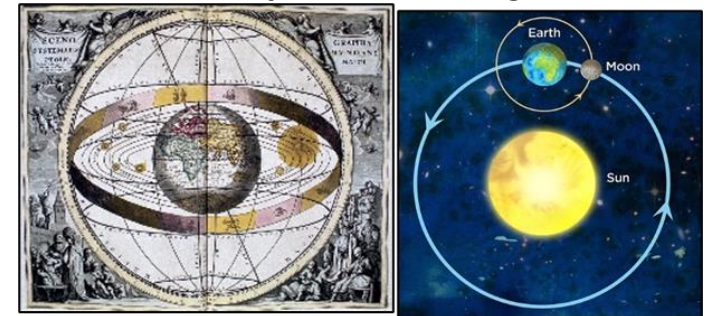


## How does the Sun affect year length and the seasons?

The Earth takes 365 to orbit the Sun. It is the Earth's tilt that causes the seasons.



## Models of the Solar System



## What is the Moon?

The Moon orbits the Earth and takes approximately 28 days. The Moon has different phases depending on where it is in its orbit.

The Moon's gravity causes high and low tides.