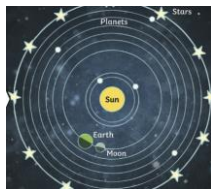


## Sticky Knowledge

- ✓ One million Earths could fit inside the sun – and the sun is considered an average-size star.
- ✓ An asteroid about the size of a car enters Earth's atmosphere roughly once a year – but it burns up before it reaches us.
- ✓ The sunset on Mars appears blue.
- ✓ Earth, is the third planet from the sun and the only world known to support an atmosphere with free oxygen, oceans of liquid water on the surface and life.
- ✓ There is no atmosphere in space, which means that sound has no medium or way to travel to be heard.
- ✓ Venus is the hottest planet in the solar system and has an average surface temperature of around 450° C
- ✓ The sheer size of space makes it impossible to accurately predict just how many stars we have.

## Important facts to know by the end of the Earth and space topic:

- know about and explain the movement of the Earth and other planets relative to the Sun.



- describe the Sun, Earth and Moon (using the term spherical).

Astronomical objects shaped like spheres.

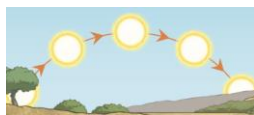
- know about and explain the movement of the Moon relative to the Earth.



- Know information about the planets.



- know and demonstrate how night and day are created.



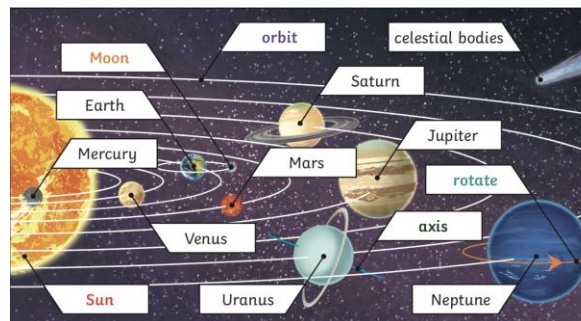
- Neil Armstrong was the first man to step on the moon.



## Big Idea

Mercury, Venus, Earth and Mars are rocky planets. They are mostly made up of metal and rock. Jupiter, Saturn, Uranus and Neptune are mostly made up of gases (helium and hydrogen) although they do have cores made up of rock and metal.

## Our Solar System



## Vocabulary

**Phases:** one of the stages of the moon or smaller planets as they change their relation to the sun.

**Rotation:** the act of turning on or around an axis.

**Orbit:** An orbit is a repeating path that one celestial body takes around another.

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

**Seasons:** one of the four parts of the year; spring, summer, fall, and winter.

**Star:** any of a vast number of heavenly bodies visible from earth as points of light in the night sky.

**Hemisphere:** either of two halves of the earth.

**Moon:** the earth's natural satellite.

**Poles:** either end of a planet's, moon's, or star's axis.

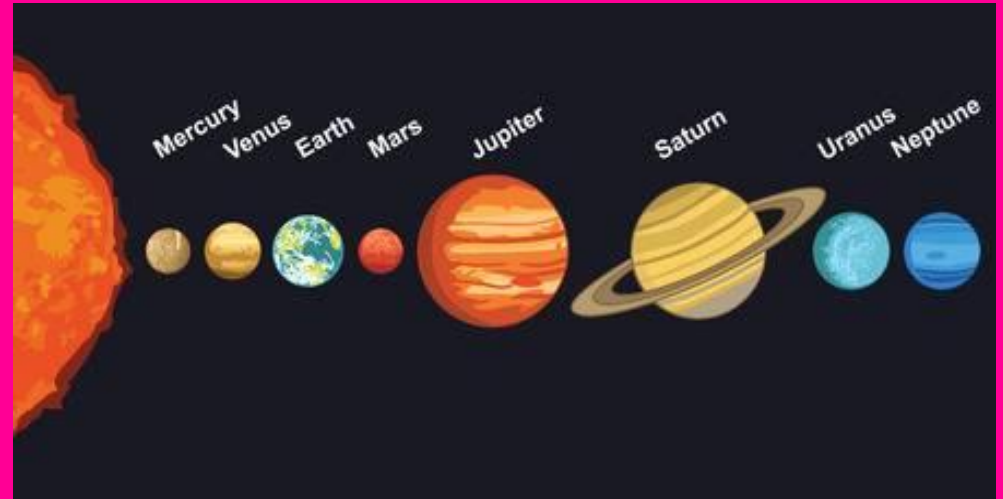
**Space:** the area that contains the entire material world and its events.

**Reflect:** to throw back from a surface.

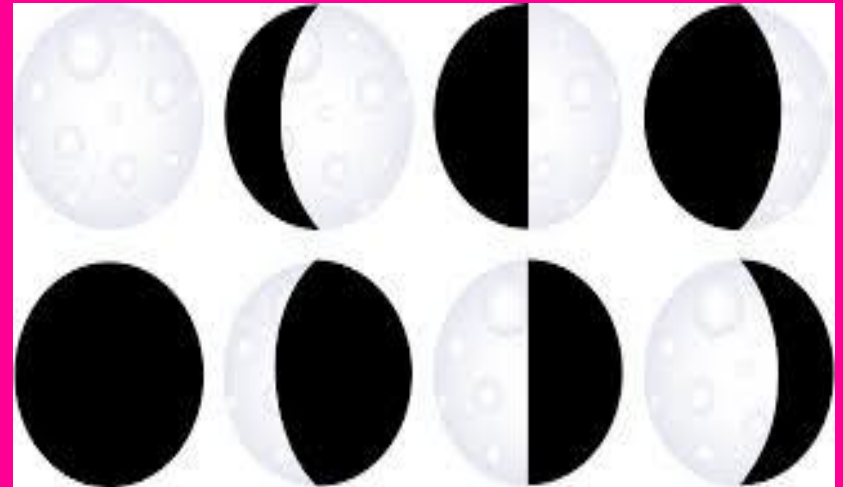
**Solar System:** The solar system is made of the eight planets that orbit our sun it is also made of asteroids, moons, comets and lots, lots more.



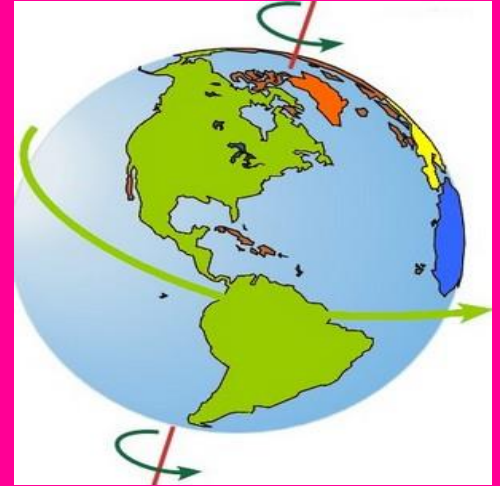
# Solar System



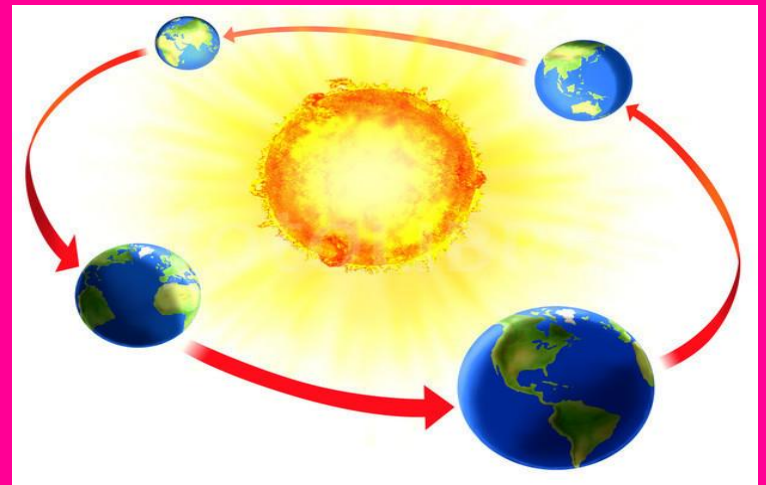
# Phases (of the Moon)



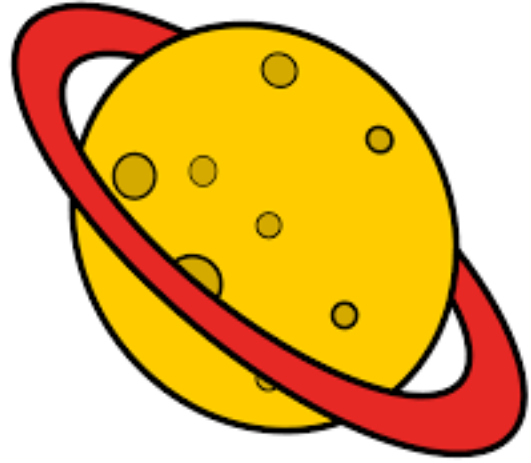
# Rotation



# Orbit



# Planets



# Seasons



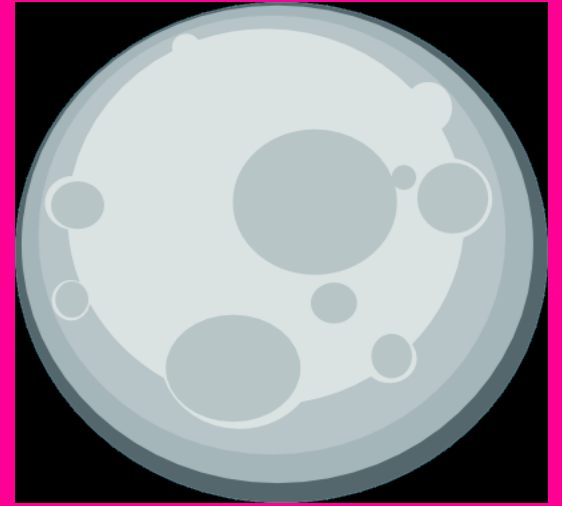
# Star



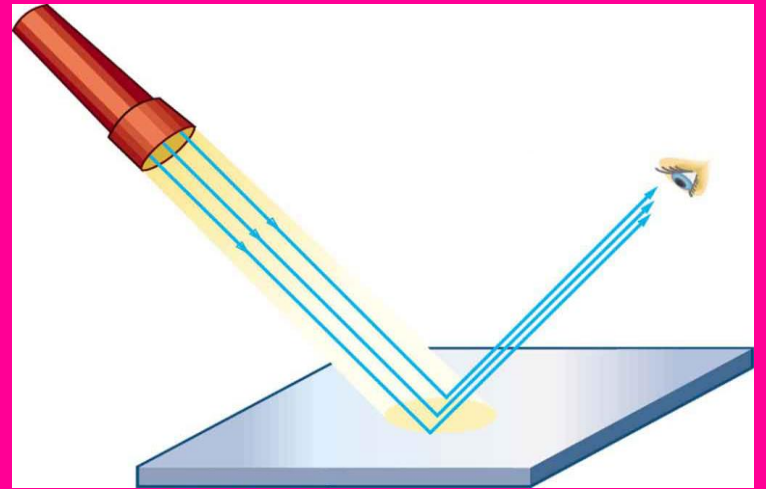
# Hemisphere



# Moon



# Reflect



# Poles

North Pole



South Pole

# Space

