

# The Earth in Space

Vocabulary	Definition
Orbit	The curved path or an object around a star
Rotation	To turn or spin
Axis	An imaginary line on which something rotates
Satellite	Any celestial body orbiting around a planet or star
Gravity	The force which pulls objects with mass towards each other (pulls everything towards the centre of a planet)
Universe	All existing matter that we know of- created by the big bang
Celestial body	An object in space
Galaxy	A huge collection of gas, dust, stars and solar systems
Solar system	A collection of planets orbiting a star

## The Moon

### Facts:

- \* The moon is an object which orbits the Earth.
- \* The moon controls the tides on Earth.
- \* The moon is covered in dust and craters.

### The Moon Landing

In 1969, NASA won the "Space Race" by sending 3 astronauts on a mission to the moon. Their names were Neil Armstrong, Buzz Aldrin and Michael Collins.

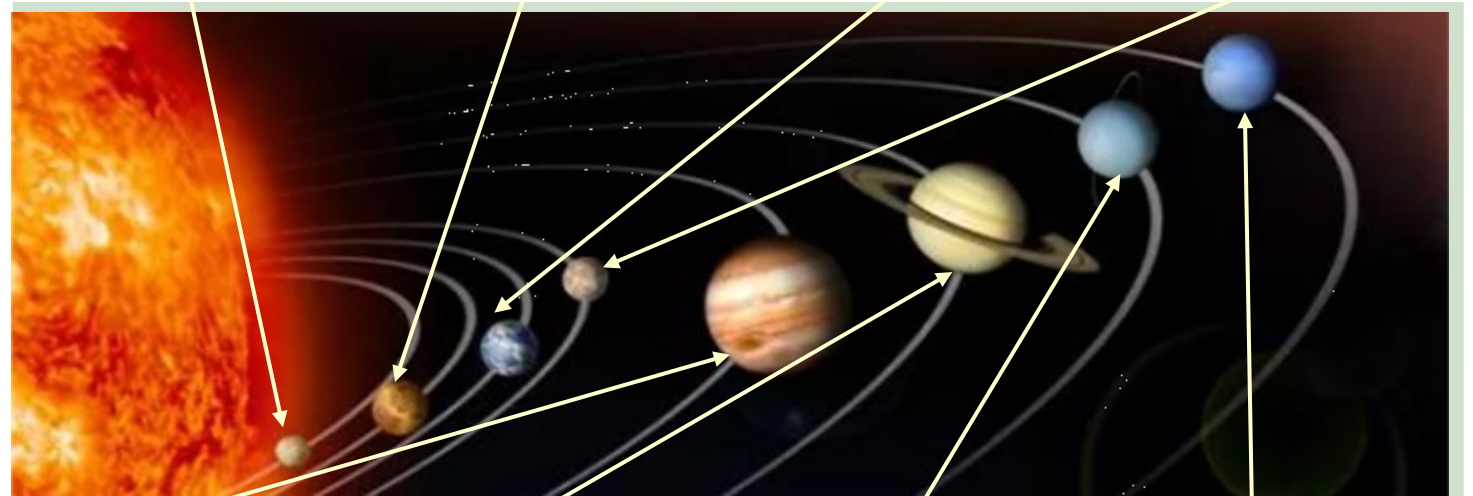


### Phases of the Moon

As the moon orbits the Earth and rotates, the sun lights up different parts of it. This is why the moon appears to us as different shapes.

## Terrestrial Planets - made mostly of rock

Mercury	Venus	Earth	Mars
The smallest planet Atmosphere: Thin Day length: 58 earth days.	Similar size to Earth Atmosphere: Hot Moons: 0	Covered in water Distance from sun: 150 million km Moons: 1	Known as the red planet Day length: similar to Earth Moons: 2



Largest planet Moons: 79 Day length: 9 hours Year length: 12 years	Made of hydrogen and helium Has visible rings Moons: 82	Ice giant Temperature: -224°C Moons: 27 Year length: 84 years	Supersonic wind speeds Temperature: -210°C Scientists say that it rains diamonds
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Jupiter	Saturn	Uranus	Neptune
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## Jovian Planets - Made mostly of gas

## The Sun

### Facts:

The sun is a star. The sun is the centre of our solar system. 8 planets orbit our sun.

### Our orbit around the sun

The Earth rotates, so we see the sun from different positions throughout the day. This takes 24 hours. The Earth orbits the sun. This takes 365 and  $\frac{1}{4}$  days. The Earth rotates on its axis as it orbits the sun, which causes seasons.

