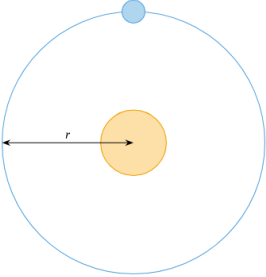





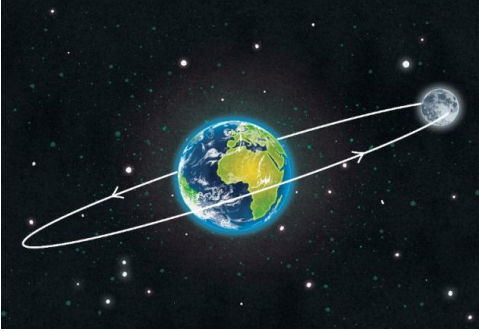
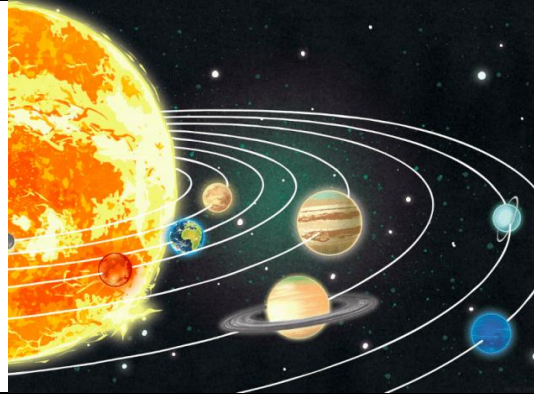


8b Space Year 9

Key word	Simple meaning	GCSE definition	Words in a sentence	Translation
(Orbital) Radius	Distance from the centre of a circle to the edge. 	Orbital radius is the distance between an object in orbit, and the centre of the object it is orbiting.	The orbital radius of the Earth going around the Sun is 150 million kilometres.	
Artificial satellite	A man-made object going around a planet.	A man-made object orbiting a planet. E.g. Artificial satellites can be used for telecommunications or GPS. 	The Hubble Telescope is an example of an artificial satellite. 	
Comet	A rock going around the Sun in an oval path.	An object made up of ice and dust that orbits the sun in an elliptical orbit.	When a comet is near the Sun, a tail of gas particles points away from the Sun.  Halley's comet has a time period of 76 years. The next time we will see it from Earth is in the year 2061.	

Galaxy	A large group of stars	<p>A galaxy is a collection of billions of stars. Each galaxy is held together by gravity.</p> 	There are approximately 100 billion stars in our galaxy , our galaxy is called the “Milky Way”.	
Moon (natural satellite)	A large rock that moves around a planet.	<p>A large rock that orbits a planet. It is big enough to be roughly spherical in shape.</p> 	<p>Earth has only one moon.</p> <p>If you were on Jupiter you would see 95 moons in the night sky.</p>	
Orbit	Go around	<p>An orbit is the path on which one object moves around another.</p> <p>An orbit can be circular or elliptical.</p>	<p>The moon orbits the Earth.</p>  <p>The Earth orbits the Sun. The comet orbits the Sun. The Sun orbits the Black hole.</p>	
Planet	A rock that goes around a star.	A large spherical mass that goes around a star in a nearly circular orbit .	There are 8 planets in our Solar System . Mercury, Venus, Earth, Mars, Jupiter, Saturn,	



Uranus, Neptune are the **planets** that **orbit** the Sun.

Satellite

Something that goes around a planet.

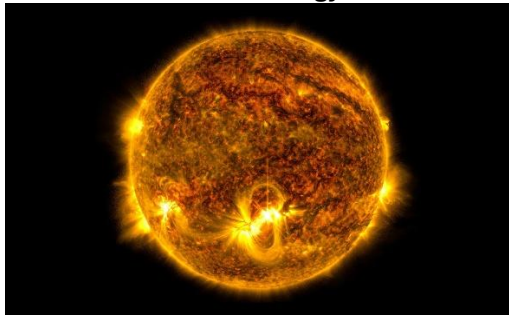
An object that orbits a planet.

The **Moon** is a satellite of **Earth**. There are 8000 **artificial satellites** going around **Earth**.

Star

A bright object in the sky.

A ball of gas that undergoes **nuclear fusion** to release **energy**.



The Sun is a **star**. It is **fusing hydrogen nuclei** together to form **helium**.

Time period

Time needed for one complete circle

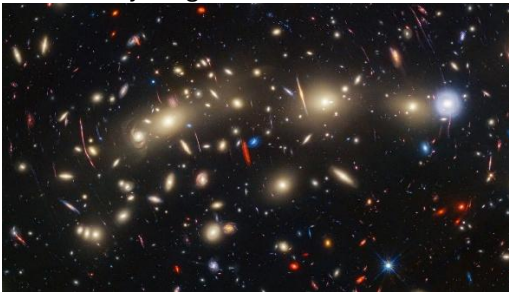
Time taken for one complete rotation/cycle.

The **time period** for the rotation of the Earth around the Sun is **one year. T=1year**

Universe

Everything. All of the planets, stars and space

The **universe** is a large collection of **galaxies**. Everything forms **one universe**.



There is **one universe**. It is made up of **billions** of **galaxies**.

