

**Year 5 Science – Earth and Space. Will we ever send another human to the moon?**

Key Knowledge	Key Skills	Vocabulary	
<ul style="list-style-type: none"> <li>• Know about and explain the movement of the Earth and other planets relative to the Sun.</li> <li>• Know about and explain the movement of the Moon relative to the Earth.</li> <li>• Know and demonstrate how night and day are created.</li> <li>• Describe the Sun, Earth and Moon (using the term spherical).</li> <li>• Know information about the planets.</li> <li>• Neil Armstrong was the first man to step on the moon.</li> </ul>	<p>Children to:</p> <ul style="list-style-type: none"> <li>• Take measurements using a range of scientific equipment with increasing accuracy and precision.</li> <li>• Report and present findings from enquiries through written explanations and enquiries.</li> </ul>	<b>orbit</b>	An orbit is a repeating path that one celestial body takes around another.
		<b>Solar System</b>	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.
		<b>astronomical</b>	Astronomy is the study of outer space focusing on celestial bodies such as stars, comets, planets, and galaxies.
		<b>planet</b>	There are 8 planets in our solar system, they are Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune.
		<b>rotation</b>	Rotation is when the shape is turned around a point
		<b>spherical</b>	Something spherical is like a sphere in being round, or more or less round, in three dimensions.
		<b>Crescent moon</b>	It is a slither of the moon that is lit up and can be seen. It is less than half the moon.
		<b>Gibbous moon</b>	The best way to describe a gibbous moon is that the moon is three-quarters lit up.
		<b>eclipse</b>	An eclipse occurs when an astronomical object is temporarily obscured. A lunar eclipse is when the Earth moves between the sun and the moon, therefore blocking the sun's rays from striking the moon
<b>lunar</b>	Anything related to the moon.		

**Interesting information about Earth and Space**



- 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 and 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.

