



Earth and Space			
Key Knowledge			
The movements of the planets		Planet Earth and the moon	
<b>The shape and relative sizes of the planets</b>	The planets are roughly spherical in shape and made of rock or gas.	<b>The Earth's movement around the sun.</b>	The Earth orbits the sun in 365.25 days.
<b>Planets' orbits of the sun</b>	Each planet orbits the sun at a different speed, and one orbit is a year.		Seasons on Earth are created by the Earth's tilt
<b>The planets' names and their order from the sun</b>	There are 8 planets plus Pluto. Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus (and Pluto being a dwarf planet). Together with the sun, these make up our solar system.	<div style="text-align: center;"> <p><b>EQUINOX</b></p> </div>	
<b>The relative sizes and make-up of the planets</b>	The rocky planets: Mercury, Venus, Earth and Mars Gas planets: (Jupiter, Saturn, Uranus, Neptune)		
<b>The phases of the moon</b>	The moon appears to change shape because of its position in the sky, and its position relative to the sun.		
It takes approximately 27 days for the moon to complete one orbit the Earth.		<div style="text-align: center;"> </div>	
		<p style="text-align: center;"><b>Key vocabulary</b></p> <p><b>Planet</b> – A celestial body moving in orbit round a star</p> <p><b>Orbit</b> – The regularly repeated oval course of a celestial object around a star or planet</p> <p><b>Equinox</b> – the days when day and night are of equal length</p> <p><b>Sun</b> – The star round which planets orbit</p> <p><b>Rotation</b> – The action of rotating about an axis or centre</p> <p><b>Solar system</b> – The collection of eight planets and their moons in orbit round the sun</p> <p><b>Solstice</b> – the longest day (approx 21<sup>st</sup> June is the summer solstice and the shortest day (approx 21<sup>st</sup> December) is the winter solstice.</p> <p><b>Star</b> – A fixed luminous point in the night sky which is a large, remote body like the sun</p> <p><b>Moon</b> – A natural satellite of any planet</p> <p><b>Day</b> – A twenty-four hour period, from one midnight to the next, corresponding to a rotation of the earth on its axis</p> <p><b>Night</b> – The time that occurs when part of a planet is not lit by any light from the sun, and so it is in darkness.</p>	

**Scientific Inquiry:** Why do shadows appear to move position over the course of a day?  
 Why does the moon have phases?