




Key vocabulary	
<b>Axis</b>	An imaginary line through the centre of the sun which turns.
<b>Gravitational pull</b>	The force that pulls planets, stars, or particles towards each other.
<b>Lunar eclipse</b>	When the Earth is between the sun and the moon casting a shadow on the Moon.
<b>Orbit</b>	The path that a planet takes to rotate around the sun.
<b>Revolve</b>	To turn or spin in place
<b>Rotate</b>	To turn on an axis
<b>Solar eclipse</b>	When the Moon is between the sun and the Earth casting a shadow over the Earth.
<b>Solar system</b>	Our sun and the eight planets and other objects that orbit it.
<b>Spherical</b>	Nearly the shape of a sphere.
<b>Universe</b>	All existing matter and space as a whole.

Key Knowledge	
<b>Preceding</b>	<ul style="list-style-type: none"> <li>The year is split into four seasons - spring, summer, autumn and winter (Y1)</li> <li>Daylight is longest in the summer and shortest in the winter (Y1)</li> <li>Weather changes throughout the year with the weather hottest in the summer and longest in the winter (Y1)</li> <li>Light travels in straight lines (Y3)</li> <li>The Sun is a natural light source - the Moon reflects the sun's light to the earth (Y3)</li> </ul>
<b>Current</b>	<ul style="list-style-type: none"> <li>The sun is a star.</li> <li>The sun is at the centre of our solar system.</li> <li>Our solar system is a tiny fraction of the universe</li> <li>There are eight planets in our solar system (Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune).</li> <li>The eight planets travel around the sun in fixed orbits.</li> <li>The earth takes <math>365 \frac{1}{4}</math> days to orbit the sun</li> <li>The further away from the sun, the longer the planet takes to orbit the sun.</li> <li>The Earth rotates (spins) on its axis.</li> <li>When the Earth faces the sun it is day, when it faces away from the sun it is night.</li> <li>As the Earth rotates, the sun appears to move across the sky.</li> <li>The rotation of the Earth affects the angle the sunlight hits the Earth - this changes our shadow length over the day.</li> <li>The Moon orbits the Earth.</li> <li>The Moon is a natural satellite - man-made satellites also orbit the Earth.</li> <li>The Moon takes approximately 28 days to orbit the Earth.</li> </ul>

Scientific Enquiry	
<b>Observing over time</b>	<p>How does shadow length change over the day</p> 
<b>Pattern Seeking</b>	<p>Is there a pattern between the size of a planet and the time it takes to travel around the Sun?</p> 
<b>Research</b>	<p>What unusual objects did Jocelyn Bell Burnell discover?</p> 
<b>Identifying and classifying</b>	<p>Can you observe and identify all the phases in the cycle of the Moon?</p> 