
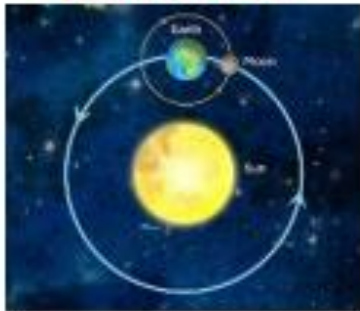
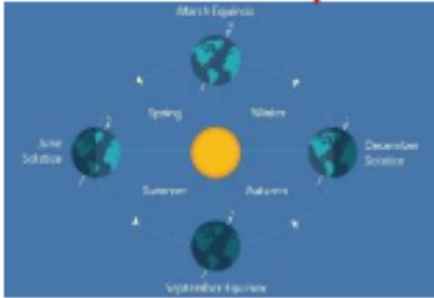
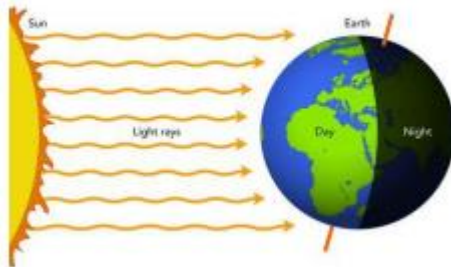
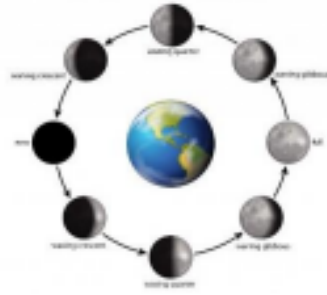


# Year 5: Science – Physics – Earth and Space



Glossary		Key Information	Curricular Goals
<b>Orbit</b>	A curved path of a planet taken by one body circling around another body. The earth makes an orbit around the sun.	 <p>The planets are called <b>Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune.</b></p> <p>An easy way to remember the names of planets in order is: <b>My Very Easy Method Just Speeds Up Naming</b></p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><b>Earth's orbit</b></p>  </div> <div style="text-align: center;"> <p><b>Seasons of the year</b></p>  </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"> <p><b>Day and night</b></p>  </div> <div style="text-align: center;"> <p><b>Phases of the moon</b></p>  </div> </div>	<p><b>Is the earth flat?</b> The sun, earth and moon are all spherical bodies</p>
<b>Solar System</b>	The solar system consists of the Sun and everything that orbits, or travels around, the Sun		<p><b>Is the earth the centre of the universe?</b> Our solar system is made up of 8 planets and all of them orbit the sun at different speed according to the heliocentric model.</p>
<b>Planet</b>	An object that orbits a star and does not emit its own light. There are 8 planets in our solar system, they are Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune.		<p><b>How does day become night?</b> The Earth rotates one complete turn every 24 hours to give us day and night. Daytime occurs when the side of the Earth is facing the sun and night occurs when the side of the Earth is facing away from the sun. When Britain faces the Sun it is daytime in Britain but the other side of the world is in darkness. So, in Australia it is the middle of the night</p>
<b>Sun</b>	A huge star that the Earth and other planets in our solar system orbit around.		<p><b>How do we have different seasons?</b> Earth rotates on an axis. During the winter, the North Pole is tilted away from the Sun's rays. As Earth travels around the Sun, the tilt of Earth changes. By June, the North Pole is tilted towards the Sun and the days become very long. Earth takes a year to orbit the Sun and it is the tilt which creates the seasons</p>
<b>Moon</b>	A natural satellite which orbits Earth or other planets.		<p><b>What are the phases of the moon?</b> The Moon orbits the Earth anti-clockwise and takes approximately 28 days. The Moon spins once on its axis every time it orbits Earth. This means that we only see one side of the Moon. The Moon has different phases depending on where it is in its orbit. At different times, the moon appears to be different shapes because the sun light up different parts of the moon as it moves around the Earth. The Moon's gravity causes high and low tides.</p>
<b>Star</b>	A giant ball of gas held together by its own gravity and makes heat and light energy.		
<b>Rotation</b>	Rotation is when a shape is turned around a fixed 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>	Is anything related to the moon.		
<b>Axis</b>	An axis is <b>an imaginary line an object turns around</b> such as the earth. This imaginary line runs directly through the object's centre, from the north to the south poles.		
<b>Heliocentric Model</b>	The structure of the solar system where the planet orbits around the sun		