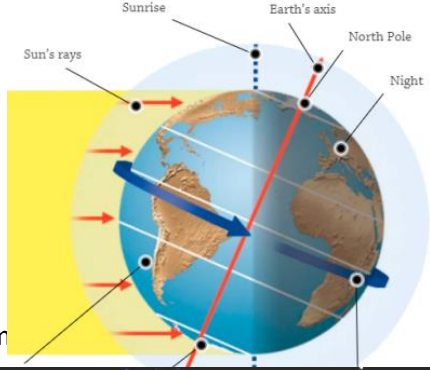



## Earth and Space

**Context:** Our planet is part of a solar system which includes other planets of different shapes and sizes.

**P.O.S – Earth and Space**

**Concept – Physics (forces)** The force of gravity keeps all of the planets in orbit around the sun.

Facts	Vocabulary
<p>1. Earth:</p> <ul style="list-style-type: none"> <li>a) Earth is a sphere</li> <li>b) Spins on an axis as it travels round the sun</li> <li>c) When one side faces the sun the other faces space</li> <li>d) The side facing the sun is bathed in light and heat – daytime</li> <li>e) Side facing space, cooler and darker – night</li> <li>f) A day on Earth last 24 hours – how long it takes to orbit the sun</li> <li>g) The Earth's tilt on its axis is what causes the 4 seasons. Sometimes it points towards the sun and other times it points away from the sun.</li> </ul>	<p>1. Orbit - comes from the Latin orbita, "course," or "track."</p> <p>Day and night:</p> 
<p>2. The solar system:</p> <ul style="list-style-type: none"> <li>a) The sun is a star and it is at the centre of the solar system.</li> <li>b) The sun is 15 million degrees hot at its centre.</li> <li>c) The sun is 1.3 million times bigger than earth.</li> <li>d) Our solar system has 8 planets.</li> </ul>	<p>Phases of the moon:</p> 
<p>3. Order of planets from the sun:</p> <ul style="list-style-type: none"> <li>a) Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune</li> </ul>	
<p>4. Moon:</p> <ul style="list-style-type: none"> <li>a) The moon moves around the Earth in an approximately circular orbit</li> <li>b) Going once around the Earth in approximately 27.3 days</li> <li>c) As it orbits the earth its position changes, relative to the stars.</li> </ul>	
<p>5. Phases of the moon:</p> <ul style="list-style-type: none"> <li>a) Waning means the moon looks like it is getting smaller.</li> <li>b) Waxing means the moon looks like it is getting larger.</li> <li>c) How much of the moon we see, depends on how much sunlight is hitting it. The moon reflects this sunlight.</li> </ul>	
<p>6. Scientists who have worked on the model of the solar system:</p> <ul style="list-style-type: none"> <li>a) Ptolemy, Alhazen, Copernicus</li> </ul>	
<p>Websites:</p> <p><a href="https://www.bbc.com/bitesize/topics/zkbbkqt">https://www.bbc.com/bitesize/topics/zkbbkqt</a></p>	<p><b>EQUINOX</b></p> 