



Year 5 Science Skills and Knowledge Organiser
Earth and Space.

Key Knowledge and Skills	Working scientifically	Key Vocabulary	Key Questions
<p>To identify and name the components of the solar system (Sun, Moon, Earth and the other planets)</p> <p>To locate the Sun, Earth and other planets in the solar system</p> <p>To recognise that the Earth and other planets orbit the Sun</p> <p>To recall that the Earth takes one year to orbit the Sun</p> <p>To recall that the Earth rotates on its' axis and this takes one day</p> <p>To describe the movement of the Earth, and other planets, relative to the Sun in the solar system</p> <p>To use simple physical models to explain effects that are caused by the movement of the Earth</p> <p>To recognise that the Moon orbits the Earth</p> <p>To explain that gravity is a force of attraction and it is what holds the planets in orbit around the Sun and the Moon in orbit around the Earth</p> <p>To describe the movement of the Moon relative to the Earth</p> <p>To explain that the changes in the appearance of the Moon over a period of 28 days arise from the Moon orbiting the Earth once every 28 days</p> <p>To describe the Sun, Earth and Moon as approximately spherical bodies</p>	<p>planning different types of scientific enquiries to answer questions</p> <p>including recognising and controlling variables where necessary</p> <p>taking measurements</p> <p>using a range of scientific equipment with increasing accuracy and precision</p> <p>taking repeat readings when appropriate</p> <p>recording data and results of increasing complexity using scientific diagrams and labels</p> <p>classification keys, tables, scatter graphs, bar and line graphs</p>	<p>Sun.</p> <p>Mercury</p> <p>Venus</p> <p>Mars</p> <p>Jupiter</p> <p>Moon</p> <p>Saturn</p> <p>Uranus</p> <p>Neptune</p> <p>Moon</p> <p>day and night</p> <p>Earth – The planet we live on.</p> <p>Sun- the star at the centre of our solar system.</p> <p>Planets- large round objects made from rock or gas, that move around the</p>	<p>What is our Solar System and what is in it?</p> <p>What is it like on the planets in the solar system?</p> <p>How does the shape of the Moon appear to change over time?</p> <p>How do the planets move around the solar system?</p> <p>How do we get day and night?</p> <p>How do the length of shadows change over the course of the day?</p>



Year 5 Science Skills and Knowledge Organiser
Earth and Space.

<p>To recognise that the Earth, Sun and Moon are spherical and support this with some evidence</p> <p>To recognise that it is daylight in the part of the Earth facing the Sun</p> <p>To recall that a shadow from the Sun changes over the course of a day</p> <p>To explore and describe how a shadow from the Sun changes over the course of a day</p> <p>To explain in terms of the rotation of the Earth why shadows change and the Sun appears to move across the sky during the course of the day</p> <p>To use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky</p> <p>To explain why it is night time in Australia when it is day time in England</p> <p>To explain how ideas about the solar system have changed over time</p>	<p>using test results to make predictions to set up further comparative and fair tests</p> <p>reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and a degree of trust in results, in oral and written forms such as displays and other presentations</p> <p>identifying scientific evidence that has been used to support or refute ideas or arguments</p>	<p>Solar system-the sun and the planets orbit around it.</p> <p>Celestial body-the universe beyond the Earth's atmosphere.</p> <p>Rotation- when an object rotates, it turns (spins) on its axis.</p> <p>Orbit- the curved path that an object follows going around a star or a planet.</p> <p>Gravity-the force of attraction by which terrestrial bodies tend to fall toward the centre of the earth.</p> <p>Shadow-a dark area or shape produced by an object coming between rays of light and a surface.</p>	
---	--	--	--