



# Knowledge and Understanding – Earth in Space

Strand	Level C	Level D	Level E	Level F	
<b>Earth in space</b> Developing an understanding of the position of the Earth in the Solar System and the Universe, and the effects of its movement and that of the Moon.	<ul style="list-style-type: none"> <li>describe the Solar System in terms of the Earth, Sun and planets</li> <li>link the temperature of the planets to their relative positions and atmospheres</li> </ul>	<ul style="list-style-type: none"> <li>describe the movement of planets around the Sun</li> <li>give some examples of the approaches taken to space</li> </ul>	<ul style="list-style-type: none"> <li>relate the movement of planets around the Sun to gravitational forces</li> <li>explain day, month and year in terms of the relative motion of the Sun, the Earth and the Moon</li> <li>describe the universe in terms of stars, galaxies and black holes</li> </ul>	<ul style="list-style-type: none"> <li>describe some of the ideas used to explain the origin and evolution of the Universe</li> </ul>	
		<ul style="list-style-type: none"> <li>describe the differences between solids, liquids and gases</li> <li>give some everyday uses of solids, liquids and gases</li> </ul>	<ul style="list-style-type: none"> <li>describe the internal structure of the Earth</li> <li>describe the processes that led to the formation of the three main types of rock</li> <li>give examples of useful materials that we obtain from the Earth's crust</li> <li>describe how soils are formed</li> <li>name the gases of the atmosphere and describe some of their uses</li> </ul>	<ul style="list-style-type: none"> <li>describe the particulate nature of solids, liquids and gases and use this to explain their known properties</li> <li>describe what is meant by an element</li> <li>describe how physical properties of elements are used to classify them as metals or non-metals</li> </ul>	<ul style="list-style-type: none"> <li>describe some features of the structure of the atom</li> <li>describe some of the characteristic features of the periodic table</li> <li>explain the water cycle using the particulate model</li> </ul>
		<ul style="list-style-type: none"> <li>describe changes when materials are mixed</li> <li>describe how solids of different sizes can be separated</li> <li>distinguish between soluble and insoluble materials</li> <li>describe in simple terms the changes that occur when water is heated or cooled.</li> </ul>	<ul style="list-style-type: none"> <li>describe what happens when materials are burned</li> <li>explain how evaporation and filtration can be used in the separation of solids from liquids</li> <li>describe the effect of burning fossil fuels.</li> </ul>	<ul style="list-style-type: none"> <li>give examples of simple chemical reactions, explaining them in terms of elements and compounds</li> <li>describe the effect of temperature on solubility</li> <li>describe the use of pH to measure acidity</li> <li>describe the process of neutralisation and give some everyday applications</li> <li>describe what happens when metals react with oxygen, water and acids</li> <li>describe how metal elements can be extracted from compounds in the Earth's crust.</li> </ul>	<ul style="list-style-type: none"> <li>give examples of the ways in which the rates of chemical reactions can be changed</li> <li>distinguish between chemical and physical changes</li> <li>give examples of chemical reactions using word equations.</li> </ul>

	P6/7
	S1/S2
	S1/S2 – to be developed