



## EARTH AND SPACE (PHYSICS)

Statements in *red* are linked from other topics

Progression in Scientific knowledge, concepts & skills	EYFS (Early Learning Goals)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	KS3
<p style="text-align: center;"><u>Concepts</u> Changes Similarity and Difference</p> <p style="text-align: center;">Working Scientifically</p>	<p>Children know about similarities and difference in relation to places, objects, materials and living things.</p> <p>Children talk about features of their own immediate environment and how environments might vary from one another</p>	<p><i>Observe changes across the four seasons</i></p> <p><i>Observe and describe weather associated with the seasons and how day length varies (Seasonal Changes)</i></p>				<p>Describe movement of the Earth and other planets, relative to the sun</p> <p>Describe movement of the moon relative to the Earth</p> <p>Know the relationship between the Sun, Earth and Moon (spherical bodies)</p> <p>Know about the Earth's</p>		<p>Gravity force, weight = mass x gravitational field strength (g), on Earth g=10 N/kg, different on other planets and stars; gravity forces between Earth and Moon, and between Earth and Sun (qualitative only)</p> <p>Our Sun as a star, other stars in our galaxy, other galaxies</p>



	Children make observations of animals and plants and explain why some things occur and talk about changes					rotation (day/night)		The seasons and the Earth's tilt, day length at different times of year, in different hemispheres  The light year as a unit of astronomical distance
<b>Possible Learning Challenge questions</b>						Where do day and night come from?  What is it like in space?		