



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
<u>Concepts</u> Changes Similarity and Difference Working Scientifically	Children know about similarities and difference in relation to places, objects, materials and living things.	<i>Observe changes across the four seasons</i> <i>Observe and describe weather associated with the seasons and how day length varies (Seasonal Changes)</i>				Describe movement of the Earth and other planets, relative to the sun Describe movement of the moon relative to the Earth Know the relationship between the Sun, Earth and Moon (spherical bodies) Know about the Earth's rotation		Gravity force, weight = mass x gravitational field strength (g), on Earth $g=10 \text{ N/kg}$, different on other planets and stars; gravity forces between Earth and Moon, and between Earth and Sun (qualitative only) Our Sun as a star, other stars in our galaxy, other galaxies The seasons
	Children talk about features of their own immediate environment and how environments might vary from one another							



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