

Year 5 Earth and space			
UKS 2	Emerging (UKS2 children can...)	Expected (UKS2 children can...)	Exceeding (UKS2 children can...)
Work Scientifically Plan Do Record Review	<ul style="list-style-type: none"> ask relevant questions and using different types of scientific enquiries to answer them set up simple practical enquiries, comparative and fair tests make systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers gather, record, classify and present data in a variety of ways to help in answering questions record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables report on findings from enquiries, include oral and written explanations, displays or presentations of results and conclusions use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions identify differences, similarities or changes related to simple scientific ideas and processes use straightforward scientific evidence to answer questions or to support their findings. 	<ul style="list-style-type: none"> plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary use test results to make predictions to set up further comparative and fair tests take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs, report and present findings from enquiries, including conclusions, causal relationships and explanations results, explanations of and degree of trust in results, in oral and written forms such as displays and other presentations identify scientific evidence that has been used to support or refute ideas or arguments. 	<ul style="list-style-type: none"> ask questions & develop line of enquiry based on observations the real world alongside prior knowledge & experience make predictions using scientific knowledge and understanding select, plan and carry out the most appropriate types of scientific enquiries to test predictions... make and record observations and measurements using a range of methods for different investigations; and evaluate the reliability of methods and suggest possible improvements present observations & data using appropriate methods, including tables and graphs interpret observations and data, including identifying patterns and using observations, measurements and data to draw conclusions present reasoned explanations, including data in relation to predictions and hypotheses evaluate data, showing awareness of potential sources of error identify further questions arising from results
Earth and space	<ul style="list-style-type: none"> recognise that they need light in order to see things and that dark is the absence of light recognise that light from the Sun can be dangerous and that there are ways to protect our eyes 	<ul style="list-style-type: none"> describe the movement of the Earth, and other planets relative to the Sun in the solar system describe the movement of the Moon relative to the Earth describe the Sun, Earth and Moon as approximately spherical bodies use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky 	<ul style="list-style-type: none"> know our Sun as a star, other stars in our galaxy, other galaxies understand how we have the seasons and the Earth's tilt, day length at different times of the year, in different hemispheres