Year 5 Long Term Science Plan

| Year 5 | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
|-------------------------------------|---|---|--|---|--|---|
| Science Topic | Properties and Changes of Materials | | Earth & Space | Living Things & Their Habitats (animal lifecycles) | Living Things & Their Habitats (plant lifecycles) | Forces (Movement) |
| Science Substantive Knowledge | Compare and group together basis of their properties, inclusolubility, transparency, condithermal), and response to make the mall, and response to make the solution and describe how to solution. Use knowledge of solids, liquimixtures might be separated, sieving and evaporating. Give reasons, based on evide fair tests, for the particular us including metals, wood and publication make the properties of the particular us including metals, and that dissolving, are reversible changes. Explain that some changes rematerials, and that this kind or reversible, including changes the action of acid on bicarbor | Iding their hardness, uctivity (electrical and agnets. Il dissolve in liquid to form a recover a substance from comparative and recoveryday materials, lastic. In the formation of new of change is not usually associated with burning and | Describe the movement of the Earth, and other planets, relative to the Sun and each other in the solar system. Describe the movement of the Moon relative to the Earth. Describe the Sun/Earth/Moon as approximately spherical bodies. Use the idea of the Earth's rotation to explain day and night. | Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird. Describe the life process of reproduction in some plants and animals. | Describe the life process of reproduction in some plants and animals. Name, locate and Describe the functions of the main parts of reproductive system of plants (stigma, stamen, petal, sepal, pollen, ovary) Human Life Cycles Describe the changes as humans develop to old age. | Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object. Identify the effects of air resistance, water resistance and friction that act between moving surfaces(causing things to slow down) Recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect. |

| Plan | | Do | | Review | |
|---|---|--|--|--|---|
| Ask questions and | Set up an enqui | iry Observe and measure | Record | Interpret and report | Evaluate |
| plan an enquiry ??? | | Q | | | (6) |
| Plan different types of scientific enquiries* to answer their own questions, including recognising and controlling variables where necessary. | Use test results to ma predictions to set up comparative and fair | further range of scientific equipment, | 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 and causal relationships, in oral and written forms such as displays and other presentations, using appropriate scientific language. | Explain degree of trust in results. Identify and evaluate scientific evidence (their own and others') that has been used to support or refute ideas or arguments. |