## Aims for Science

The national curriculum for science aims to ensure that all pupils:

•develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics

•develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them

•are equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future

Pupils should be taught to:

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| ***Working Scientifically***  •asking simple questions and recognising that they can be answered in different ways  •observing closely, using simple equipment  •performing simple tests  •identifying and classifying  •using their observations and ideas to suggest answers to questions  •gathering and recording data to help in answering questions |
| ***Plants***  •observe and describe how seeds and bulbs grow into mature plants  •find out and describe how plants need water, light and a suitable temperature to grow and stay healthy |
| ***Animals including humans***  •notice that animals, including humans, have offspring which grow into adults  •find out about and describe the basic needs of animals, including humans, for survival (water, food and air)  •describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene |
| ***Everyday materials***  •identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses  •find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching |
| ***Living things and their habitats***  •explore and compare the differences between things that are living, dead, and things that have never been alive  •identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other  •identify and name a variety of plants and animals in their habitats, including microhabitats  •describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food |
| ***Movement***   * notice and describe how things are moving, using simple comparisons such as faster and slower * compare how different things move. |