



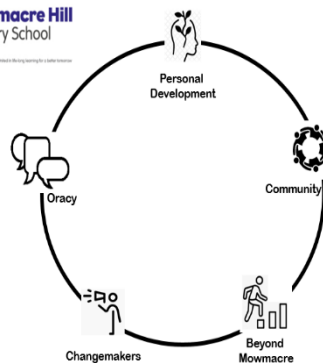
## Science Curriculum Intent

At Mowmacre Hill Primary School, we recognise the importance of Science in every aspect of daily life. As one of the core subjects taught in Primary Schools, we give the teaching and learning of Science the prominence it requires. The National Curriculum will provide a structure and skill development for the science curriculum being taught throughout the school, which is now linked, where possible to the theme topics to provide a creative scheme of work, which reflects a balanced programme of study.

Science teaching at Mowmacre Hill Primary School aims to give all children a strong understanding of the world around them whilst acquiring specific skills and knowledge to help them to think scientifically, to gain an understanding of scientific processes and also an understanding of the uses and implications of Science, today and for the future. It will develop the natural curiosity of the child, encourage respect for living organisms and the physical environment and provide opportunities for critical evaluation of evidence.

At MHPS, scientific enquiry skills are embedded in each topic the children study and these topics are revisited and developed throughout their time at school. Topics, such as Animals (including humans), are taught at the beginning of Key Stage One and are revisited every year, building on and developing further during Key Stage Two. This model allows children to build upon their prior knowledge and increases their enthusiasm for the topics whilst embedding this procedural knowledge into the long-term memory. Children are supported to develop and use a range of skills including observations, planning and investigations, as well as being encouraged to question the world around them and become independent learners in exploring possible answers for their scientific based questions. Specialist vocabulary for topics is taught and built up, and effective questioning to communicate ideas is encouraged. Concepts taught should be reinforced by focusing on the key features of scientific enquiry, so that pupils learn to use a variety of approaches to answer relevant scientific questions.

## Curriculum Drivers



Oracy - Through investigations and challenges the children will have opportunities to improve their levels of oracy so that they are able to communicate confidently and effectively with their peers.

Personal development - The range of experiences and achievements will contribute to the enrichment of their lives, according to individual needs, abilities, and aptitudes

Community - creating life-long learners who will be equipped with the knowledge, skills and drive to contribute positively to an ever-changing world.

Changemakers – developed by learning about individuals and organisations who have made ground-breaking discoveries and inventions for the benefit of society.

Beyond Mowmacre – Explore how Science is communicated in places outside school (science museums, hands-on centres, zoos, botanical gardens, etc.).

## **Curriculum Implementation**

In ensuring high standards of teaching and learning in science, we implement a curriculum that is progressive throughout the whole school.

Planning for science is a process in which all teachers are involved to ensure that the school gives full coverage of, 'The National Curriculum programmes of study for Science 2014' and, 'Understanding of the World' in the Early Years Foundation Stage. Science teaching at Mowmacre Hill Primary School involves adapting and extending the curriculum to match all pupils' needs. Where possible, Science is linked to class topics however science is also taught as discrete units and lessons and our Science Curriculum Focus weeks to ensure full curriculum coverage.