Curriculum Intent: Science

We have an inclusive Science curriculum that enables all children to access learning and complete practical investigations. It is a broad and balanced curriculum that is sequential enabling children to build upon their previous knowledge and skills. We want to develop a passion for Science in all children and we want children to remember Science as informative but fun.

Our curriculum has been mapped out carefully through the use of Plan Bee which follows the National Curriculum. It has appropriate coverage; it is sequential and adapted to the needs of our pupils. Science units are taught in unison to enable the development of the child's learning. It systematically revisits and builds upon previous learning. This consolidates prior knowledge and builds enthusiasm whilst embedding procedural and conceptual knowledge into long-term memory. This model also allows children who join us throughout a Key Stage to 'backfill' knowledge and skills gaps in Science.

We lay the foundations for future science learning through our Early Years curriculum which teaches children to understand and talk about the world around them. We use stories, objects, artefacts and experiences to develop children's understanding of the natural and physical world, and to give them the concepts and vocabulary they need to discuss their observations and investigations.

Children work collaboratively through discussions and activities with hands-on learning and in class discussions. The children have opportunities to develop their knowledge and curiosity, whilst asking questions. Our science teaching aims to give all children a strong understanding of the world around them and the ability to think scientifically, so that they gain an understanding of scientific processes and of the uses and implications of science for today and for the future.

We teach and reinforce specialist vocabulary throughout the Key Stages, developing Oracy so that children are fluent to communicate their scientific ideas. We aim for children to leave Key Stage 2 ready to cope with the demands of the next stage of the curriculum and of the modern world around them.

Scientific enquiry skills are embedded in each area of study so that children develop and use a range of skills including observing, planning, identifying and classifying, fair testing and pattern seeking. Children are encouraged to question the world around them and become independent learners in exploring their scientific questions. We work to ensure that girls as well as boys are confident to engage, experiment and attain in science, using diverse role models to promote science as a valid career option for all children. We draw on the scientific and technological resources of Manchester and the North West to broaden children's horizons and inspire a passion for science.

United Nations Convention on the Rights of the child

Article 2 Every child has the same rights whatever their ethnicity or , gender

Article 17 Every child has the right to reliable information from the mass media.

Article 29 Education must encourage the child's respect for the environment.