

Manorfield Infant and Nursery School Curriculum Statement

Science

Our aim at Manorfield Infant and Nursery School is to give our children a science curriculum which enables them to explore, ask questions and discover the world around them confidently, through knowledge based lessons and explorative, inquiry based learning. Our aim is that these stimulating and challenging experiences help children secure and extend their scientific knowledge and vocabulary so that they have a deeper understanding of the world we live in. Our science curriculum has been designed to cover all skills, knowledge and understanding as set out in the National Curriculum strands for science and the EYFS (Knowledge and Understanding of the World). To ensure that our children develop a secure knowledge that they can build on, our science curriculum is organised into a progression model that outlines the skills, knowledge and vocabulary to be taught in a sequentially coherent way from the Early Years through to Year 2. Scientific thinking and vocabulary are mapped out to ensure that children develop their oracy skills and begin to understand and use scientific language.

Our science curriculum provides opportunities for children to become enquiry based learners, collaborating through research, investigation and evaluation. The following types of scientific thinking are woven throughout our curriculum, problem solving, pattern seeking, comparative/fair testing, research, observation over time and identifying and classifying to ensure that the children are gaining a full breath of opportunities to engage in learning as scientists. All aspects of 'working scientifically' are interwoven throughout our curriculum, to ensure that children understand what it means to be a successful scientist. All children will be provided with a broad and balanced science curriculum, which builds on prior learning and reflects the equality and diversity within school.

Intent	Implementation	Impact
<p>We will deliver a curriculum that:</p> <ul style="list-style-type: none"> has been designed to cover all the skills and knowledge as set out in the EYFS and NC is organised into long term, medium term and short term plans builds upon prior knowledge shows progression of skills and science related vocabulary to enable all children to have a secure understanding of key science concepts. This is organised through a science progression map. encourages our children to be self-motivated, independent, curious and resilient learners equipped with the knowledge and vocabulary to make their own decisions and explore to find their own answers inspires and excites our children through engaging knowledge based and practical sessions which are enriched with visits and visitors and encompasses outdoor learning to build upon the knowledge, vocabulary and skills taught. 	<p>You will see:</p> <ul style="list-style-type: none"> children practicing their skills and developing knowledge through a wide range of activities which are differentiated to meet the needs of all a combination of whole class teaching, group and individual work children engaged in practical activities to extend their knowledge in the EYFS (UTW) and the National Curriculum four areas of study modelling and scaffolding to demonstrate how to ask scientific questions, record and explain or describe findings daily reviews and quizzes to reinforce learning photographs, books, iPads and videos to promote understanding children encouraged to ask questions organised and relevant resources subject specific vocabulary taught through, research and reading. Topic related science vocabulary displayed in classrooms and outdoor learning used progressively to enhance the science curriculum. 	<ul style="list-style-type: none"> children have the knowledge and skills to work like a scientist children make sustained progress in science pupils work demonstrates that science is taught at an age appropriate standard across each year group with opportunities planned in for pupils working at greater depth children are able to apply and link their scientific understanding to other areas of the curriculum and everyday life children show an awareness and interest in the planet and the importance of looking after it and will be aware of how to make a positive contribution to local environmental issues work is good quality and demonstrates pupils are acquiring knowledge, skills and vocabulary in an appropriate sequence pupil voice demonstrates good knowledge and understanding of science concepts, using science based vocabulary and all children make good progress regardless of ability.