

# Middlezoy and Othry Curriculum Statement Science

“Children at the heart. Transforming futures at the core.”

“Science aims to stimulate our natural curiosity in finding out why things happen in the way we do. It teaches methods of enquiry and investigation to stimulate creative thought..” National Science

Intent	Implementation	Impact
<p>What will take place before teaching in the classroom?</p>	<p>What will this look like in the classroom?</p>	<p>How will this be measured?</p>
<p><b>The school’s senior leadership team will:</b></p> <ul style="list-style-type: none"> <li>Lead the school staff to develop a clear overarching curriculum intent which drives the ongoing development and improvement of all curriculum subjects.</li> <li>Ensure that the curriculum leaders have appropriate time to develop their specific curriculum intent through careful research and development.</li> <li>Provide sufficient funding to ensure that implementation is high quality.</li> </ul>	<p><b>Our teaching sequence will be:</b></p> <ul style="list-style-type: none"> <li>Big Picture: Start with what the children know, understand, are able to do and able to say. Daily Review: Revisit previous learning.</li> <li>Provide information and scientific concepts.</li> <li>Specify key vocabulary to be used and its meaning.</li> <li>Provide opportunities for the children to investigate in a variety of contexts.</li> <li>Obtain and present evidence through observations, comparisons and collected data.</li> <li>Consider and evaluate evidence making connections with scientific knowledge and understanding.</li> </ul>	<p><b>Pupil Voice will show:</b></p> <ul style="list-style-type: none"> <li>A developed understanding of the methods and skill of scientists at an age appropriate level</li> <li>A secure understanding of the key techniques and methods for each key area of the curriculum: field work, place and location knowledge, and human ar physical knowledge.</li> <li>A progression of understanding, with appropriate vocabulary which supports and extends understanding</li> <li>Confidence in discussing science, their own work and identifying their own strengths and areas for development</li> </ul>
<p><b>The curriculum leader will:</b></p> <ul style="list-style-type: none"> <li>Understand and articulate the expectations of the curriculum to support teaching and support staff in the delivery.</li> <li>Ensure an appropriate progression of knowledge is in place which supports pupils in knowing more and remembering more as scientists.</li> <li>Ensure an appropriate progression of science skills and knowledge is in place over time so that pupils are supported to be the best scientists they can be, and challenge teachers to support struggling scientists and extend more competent ones.</li> <li>Ensure an appropriate progression for vocabulary is in place for each phase of learning, which builds on prior learning.</li> <li>Identify scientists who underpin specific areas of the curriculum and raise aspirations for pupils.</li> <li>Keep up to date with current science-teaching research and subject development through an appropriate subject body or professional group.</li> </ul>	<p><b>Our classrooms will:</b></p> <ul style="list-style-type: none"> <li>Provide appropriate quality equipment for each area of the curriculum.</li> <li>Have developed learning walls which include high quality WAGOLLS, including actual pieces of work and known scientists, and carefully chosen vocabulary, which are regularly updated.</li> <li>Be organised so that pupils can work in small groups or whole class as appropriate to support pupils in their development of their skills.</li> <li>Deploy appropriately challenging selections of texts, both non-fiction and fiction, accessible throughout learning to develop wider understanding and underpin reading skills.</li> </ul>	<p><b>Displays around school and books will show:</b></p> <ul style="list-style-type: none"> <li>Pupils have had opportunities for practice and refinement of skills.</li> <li>A varied and engaging curriculum which develops a range of scientific understanding and skills.</li> <li>Developed and final pieces of work which showcase the skills learned.</li> <li>Clear progression of skills in line with expectations set out in the progression grids.</li> <li>That pupils, over time, develop a range of skills and techniques across all of the areas of the scientific curriculum.</li> </ul>