



Curriculum statement for Science

Mission Statement
Learning together hand in hand with our friend Jesus

Intent	Implementation	Impact
<p>At St Mary and St Michael, in conjunction with the National Curriculum, our Science teaching offers a range of opportunities for our pupils:</p> <ul style="list-style-type: none">• To develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics.• To develop an 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.• To be equipped with the scientific knowledge required to understand the uses and implications of science today and for the future.• Prepare our pupils for future learning and employment.• Ensure that ALL learners are given the opportunity to gain knowledge and cultural capital to succeed.	<p>Teachers create a positive attitude to science learning within their classrooms and reinforce an expectation that all children are capable of achieving high standards in this core subject. Our whole school approach to the teaching and learning of science involves many aspects:</p> <p>Our school uses the National Curriculum in England 2014 Framework for Science as the basis for its curriculum planning which is drawn from the Science Scheme of Work. We develop our Medium Term Plans using a range of sources. While there are opportunities for children of all abilities to develop their skills and knowledge in each teaching unit, the planned progression built into the Science curriculum means that the children are increasingly challenged as they move through the school. Links are made to termly themes and other curriculum subjects where appropriate. Science is taught by individual class teachers who with their year group partner take responsibility for planning, resourcing and delivering this area of the curriculum. To achieve the above, we ensure that children are able to acquire key scientific knowledge through practical experiences using equipment, conducting experiment, building arguments, confidently explaining concepts.</p> <p>Children are offered a wide range of extra-curricular activities, visits, trips and visitors to complement and broaden the curriculum. These are purposeful and link with the knowledge being taught in class.</p> <p>Early Years pupils access scientific opportunities through play based learning. Children in the Early Years Unit benefit from their very own playground with areas devoted for exploring different areas of science – such as the investigation area, the garden area and the water area. Our Early Years staff follow 'In The Moment' planning to encourage children to think independently and ask questions about the world around them.</p>	<p>Our curriculum is planned to help our students expand on their knowledge and skills within the science curriculum, and demonstrate steady progression over time. Where children are able to keep up with the objectives outlined in their year group's plans, they are deemed to be making expected or above expected progress. We also rely on a variety of other methods to measure the success of our children's learning.</p> <p>The science subject leader and SLT will monitor the teaching and learning of science in line with reference to the school improvement plan, and the expectations of our curriculum intent. Monitoring will take place in the following ways:</p> <ul style="list-style-type: none">• Book scrutinies• Planning checks• Lesson observations