'Let your light shine as you grow'

Subject Leader Curriculum Intent, Implementation and Impact Overview	
Subject: Science	**Subject Leader: Caroline Jeewan**

At St Mary's School, the intent of our Science curriculum is to deliver a curriculum which is accessible to all children. It is our intention to recognise the importance of Science in every aspect of daily life. We give the teaching and learning of Science the prominence it deserves across the primary curriculum. Increasing pupil's knowledge and understanding of the world and developing the skills associated with Science as a process of enquiry.

Intent	Implementation	Impact
• At St Mary's we want our children to be naturally curious about the world around them. Our curriculum has been developed to ensure full coverage of the National Curriculum and to foster a sense of wonder about natural phoneme. • We are committed to providing a stimulating, engaging and challenging learning environment both inside and outside of the classroom. Our balanced science curriculum is enhanced with opportunities to fully utilise the school's large Forest school. We have a well-structured scheme of work, regular CPD, whole school curriculum maps and skills progression documents. • Throughout our school children are encouraged to develop and use a range of working scientifically skills including enquiry, questioning and observations. We want our children to have a broad vocabulary and rich scientific language is taught and built upon as topics are revisited in different year groups and across the key stages. • We provide all children with a broad and balanced science curriculum. This is regardless of ethnic origin, gender, class, aptitude or disability. At St Mary's we actively highlight key scientists, past and present, especially female and scientists or different ethnic origins. • For all children to have higher aspirations to further study, and potentially work in the areas of STEM.	• The Kent Primary Science scheme of work (2019) follows the National Curriculum programmes of Study for Science 2014. Teachers are able to use the scheme as a resource and are encouraged to develop areas with their own expertise. • The Science curriculum skills progression has been developed by all teachers in the school in consultation with the Science Lead. • Under the new EYFS Framework 'Understanding the World' Reception cover the Natural World both in class and outdoors. The children have access to a range of science outdoor learning opportunities including EYFS and Year 1 attending Forest School once a week. • Across the school practical investigations and the use of outside areas support continue to develop children's enquiry skills in the natural world and the environment around them from Reception to Year 6 and beyond. • Where possible, Science will be linked to class topics and teachers plan to suit their children's interests, current events, their own teaching style, and the use of any support staff and the resources available. Some topics are suitable for cross-curricular activities such as Geography, History, Art, and D&T. • Children's existing knowledge will be checked at the beginning of each topic to ensure teaching is informed by the children's starting points and interests. Each lesson the children are reminded where they are working towards, the end point for the topic and as they progress through school. • Children will acquire knowledge through their practical investigations, outdoor learning and through visitors, trips and visits. These are organised during the year to ensure all	• From conducting pupil perceptions surveys and discussions, children will have a genuine curiosity and are passionate about science and in the world around them. • Children will be able to enjoy talking about what they have learnt in science and how they have achieved this learning. • Children will be able to use scientific vocabulary when talking about their learning and will be confident in using a range of sources to prompt and support these discussions (science books and working walls) • Children will be able to work collaboratively and practically to investigate and experiment. • Children will be able to explain the process they have taken and be able to reason and work scientifically. • The children's ability to have enquiring and questioning minds will impact across all of the curriculum not just in Science. • The children will have a rich vocabulary that will enable them to articulate their understanding of taught concepts. • The children will have high aspirations, and the enthusiasm to continue their science education at secondary school and will be excited about the next stage in their science journey.

	children are provided with rich learning experiences that will increase their understanding of science. • The children will develop enquiry skills through carrying out many types of enquiries such as pattern seeking, observation over time, fair testing for example. Children use a range of resources in each Year group to develop their knowledge and understanding that is integral to their learning and develop their understanding of working scientifically. • Children will learn about relevant Scientists and Science that is current. Children are actively encouraged to watch the news and find out what is happening for example climate change. • The children will have regular science lessons, once a week unless blocked out for a special project. The teachers build upon the knowledge and skill development of the previous years and • Children will be able to reflect on their learning and build on their prior knowledge and link ideas together, enabling them to question and be given opportunities to use scientific skills and discover answers. • Attainment is assessed each half term through related topic assessments. Teaching will involve adapting and extending the curriculum to match all pupils' needs. Each topic is RAG rated at the end of a module or half term and consolidated as necessary. • Children's knowledge, skills, vocabulary and confidence in science will be assessed and monitored by learning walks, book looks, moderation, pupil voice, lesson observations, CPD, coaching and teacher conversations.	• Children will be enthusiastic to attend After school and lunchtime STEM clubs –such as in Gardening club, STEM KS1 club, STEM KS2 club. • Children will have more confidence to enter cross school Science fairs and seek out any additional Science extra-curricular activities. both at home as well as in school. • Children at St Mary's enjoy science and this results in motivated learners and sound scientific understanding.