ST CHRISTOPHER'S

CHURCH OF ENGLAND PRIMARY SCHOOL

Part of the Diocese of Ely Multi Academy Trust

At St Christopher's Primary School, we are committed to providing our children with a curriculum that has a clear intention and impacts positively upon their needs.

Curriculum statement for the teaching and learning of Science

INTENT

At St Christopher's Primary School, we recognise the importance of Science in every aspect of daily life. The Scientific area of learning is concerned with increasing pupils' knowledge and understanding of our world, and with developing skills associated with Science as a process of enquiry. It will develop the natural curiosity of the child, encourage respect for living organisms and the physical environment and provide opportunities for critical evaluation of evidence.

At St Christopher's Primary School, in conjunction with the aims of the National Curriculum, our Science teaching offers opportunities for children to:

- develop scientific knowledge and conceptual understanding through the specific disciplines of Biology, Chemistry and Physics
- develop understanding of the nature, processes and methods of Science through different types of scientific enquiries that help them to answer scientific questions about the world around them;
- be equipped with the scientific knowledge required to understand the uses and implications of Science, today and for the future.
- develop the essential scientific enquiry skills to deepen their scientific knowledge.
- use a range of methods to communicate their scientific information and present it in a systematic, cross-curricular manner, including ICT, diagrams, graphs and charts and a variety of written text types.
- Develop an enthusiasm and enjoyment of scientific learning and discovery.

Underpinned By	The approach at St Christopher's Primary results in a fun, engaging, high-quality science education, that provides children with the foundations for understanding the world. Our engagement with the local environment ensures that children learn through varied and first-hand experiences of the world around them. So much of science lends itself to outdoor learning and so we provide children with opportunities to experience this where possible. Through various workshops, trips and interactions with experts, children have the understanding that science has changed our lives and that it is vital to the world's future prosperity and sustainability. Children learn the possibilities for careers in science as a result of our community links. Pupil voice is used to further develop the Science curriculum, through questioning of pupil's views and attitudes to Science to support the children's enjoyment of science and to motivate learners.			
IMPLEMENTATION	**Primary Knowledge Curriculum (PKC)** A knowledge rich curriculum scheme used across the whole school with consistent structure to science lessons encourages children to develop scientific skills each year building on their prior knowledge. Science is taught independently to ensure that children are taught specific science concepts and enquiry. Children are taught about significant scientific discoveries and scientists. They have opportunities in Upper Key Stage 2 to further apply their knowledge in greater depth.	**External Stimuli** Through trips and visits and visitors, children will be given the opportunity to develop their skills and knowledge beyond the classroom.	**Themed Days** To celebrate and raise the profile of important scientific findings. We celebrate British Science Week annually by completing fun and exciting experiments.
	Important Scientific figures Broadens the knowledge of the children by teaching them about a diverse and multi-cultural range of scientists throughout history.	**Thoughtful Questioning** Encourages deeper thinking and the consideration of other viewpoints.	**Resources** Children have the opportunity to develop their practical skills by using a wide variety of scientific equipment.

IMPACT				
	At the end of each year, pupils will have a comprehensive understanding of the science curriculum and a positive outlook on their learning journey through St Christopher's. They will be able to discuss their findings using key vocabulary and references from their completed work. Children will have covered the five areas of scientific enquiry: Investigation, Pattern Seeking, Research, Observing Over time and Fair testing/Comparison developing their analytical and questioning skills along the way. Also, the children will have consolidated learning from other curricular areas due to the creative recording of data using a variety resources and methods.			
	PUPIL VOICE Through discussion and feedback, children talk enthusiastically about their Science lessons and show a genuine curiosity and interest in the areas they have explored.	**EVIDENCE IN KNOWLEDGE** Pupils can call on their prior learning to propel their understanding of Science. They can verbally explain their learning clearly using key vocabulary	**EVIDENCE IN SKILLS** Pupils use acquired vocabulary to interpret and convey their understanding of the subject. They are able to record data in a variety of ways and can prove or disprove a hypothesis in a fair and safe manner.	**BREADTH AND DEPTH** Teachers plan opportunities for pupils to study across concepts and deepen their conceptual understanding. Pupils have confidence and are inspired to further their knowledge.