



Science Curriculum

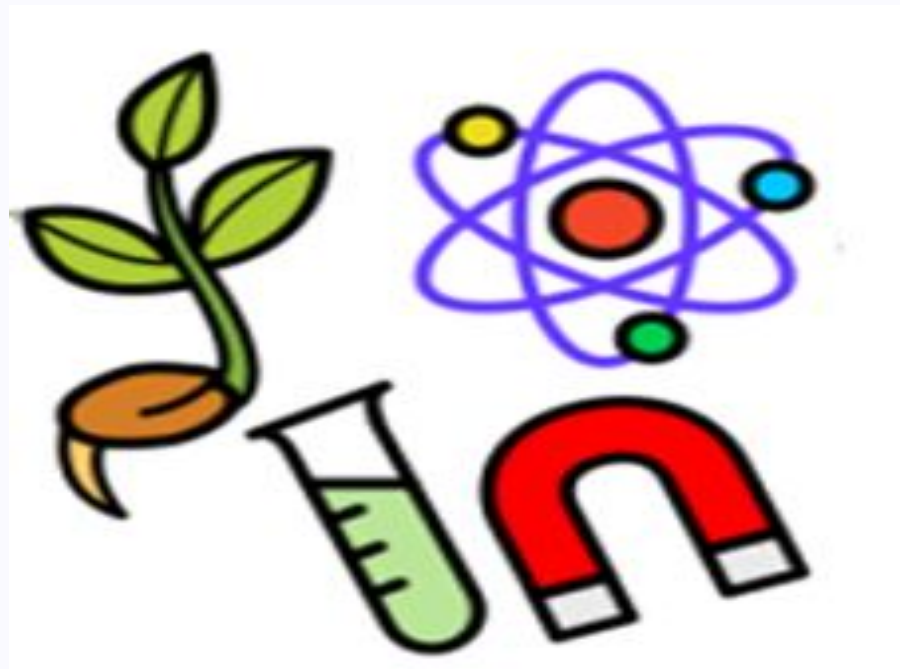
"Learning Together, Achieving Together"



National Curriculum in England for Science

The national curriculum for science aims to ensure that all pupils:

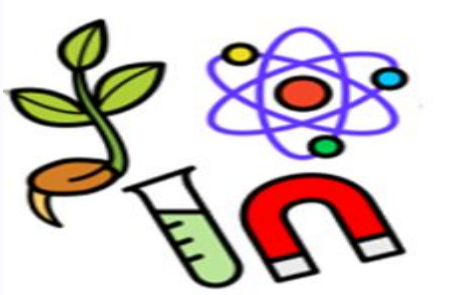
- develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics.
- develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them.
- are equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future.



Our Intent

At Mereside Primary Academy the Science Curriculum enables our pupils to **learn together and achieve together** to develop scientific knowledge and understanding. We recognise the importance of Science in our daily lives. Our children are taught the necessary knowledge to understand our world, this knowledge is underpinned by scientific enquiry to see that knowledge in action. Children at Mereside are given the opportunity to explore their environment and understand how Science impacts every aspect of their lives. At Mereside, we follow a knowledge and skills rich approach to Science. We intend for our students to have a hands on experience with Science. They are encouraged to be inquisitive about the world through asking pertinent questions about nature and the world around them. Our pupils have the opportunity to carry out a scientific investigation every half term focusing on the working scientifically skills set out in the National Curriculum, showcasing the skills they have learned. They learn about the theoretical and practical applications of Biology, Chemistry and Physics and how these interact in a real world context. All of our students, regardless of age, are able to access high quality Science provision with a well resourced and differentiated approach to lessons. Our Science Curriculum contributes towards our pupils developing the skills and knowledge needed to help them thrive in their next steps in education and their lives within their community.

Long-term Overview for Science



Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
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- NURSERY
- RECEPTION
- YEAR 1
- YEAR 2
- YEAR 3
- YEAR 4
- YEAR 5
- YEAR 6

EYFS: The Natural World/Creating with materials					
Animal adventures		Changing seasons		I am a scientist	
Animals including humans		Materials and their properties	Seasonal changes	Introduction to plants	Investigating science through stories
Animals including humans		Materials and their properties	Plant growth	Habitats	Microhabitats
Animals including humans	Forces and magnets	Light	Plant reproduction	Materials: Rocks and Soil	Does hand span affect grip strength?
Living things and their habitats	States of matter	Electricity	Sound and Vibrations	Digestion and Food	How does the flow of liquids compare?
Properties and changes of materials		Forces: Unbalanced forces	Forces and Space: Earth and Space	Life cycles and reproduction	Human timeline
Animals including humans	Electricity	Living things and their habitats	Light and reflection	Evolution and Inheritance	Are some sunglasses safer than others?