

# Standards Science Key Stage 3

## Science Importance Statement

The study of science fires pupils' curiosity about phenomena in the world around them and offers opportunities to find explanations. It engages learners at many levels, linking direct practical experience with scientific ideas. Experimentation and modelling are used to develop and evaluate explanations, encouraging critical and creative thought. Pupils learn how knowledge and understanding in science are rooted in evidence. They discover how scientific ideas contribute to technological change – affecting industry, business and medicine and improving quality of life. They trace the development of science worldwide and recognise its cultural significance. They learn to question and discuss issues that may affect their own lives, the directions of societies and the future of the world.

● Indicates standard is focused on    ○ Indicates standard is covered in a general way

Key Stage 3 Science Programme of Study Statement <b>Key Concepts</b>		Inquiry Video	Tutorial	Heat	Motion	Sound	Light	Project
<b>1.1 Scientific Thinking</b>								
2.	Critically analysing and evaluating evidence from observations and experiments.	●	●	●	●	●	●	●
<b>1.4 Collaboration</b>								
1.	Sharing developments and common understanding across disciplines and boundaries.							●

Key Stage 3 Science Programme of Study Statement <b>Key Processes</b>		Inquiry Video	Tutorial	Heat	Motion	Sound	Light	Project
<b>2.1 Practical and enquiry skills</b>								
1.	Use a range of scientific methods and techniques to develop and test ideas and explanations.	●	●	●	●	●	●	●
3.	Plan and carry out practical and investigative activities, both individually and in groups.	●	●	●	●	●	●	●
<b>2.2 Critical understanding of evidence</b>								
Should be able to:								
1.	Obtain, record and analyse data from a wide range of primary and secondary sources, including ICT sources, and use their findings to provide evidence for scientific explanations	●	●	●	●	●	●	●
<b>2.3 Communication</b>								
1.	Use appropriate methods, including ICT, to communicate scientific information and contribute to presentations and discussions about scientific issues.							●

Key Stage 3 Science Programme of Study Statement <b>Range and Content</b>		Inquiry Video	Tutorial	Heat	Motion	Sound	Light	Project
<b>3.1 Energy, electricity and forces</b>								
1.	Energy can be transferred usefully, stored, or dissipated, but cannot be created or destroyed			●				
2.	Forces are interactions between objects and can affect their shape and motion.				●			

Key Stage 3 Science Programme of Study Statement <b>Curriculum Opportunities</b>		Inquiry Video	Tutorial	Heat	Motion	Sound	Light	Project
The curriculum should provide opportunities for pupils to:								
1.	Research, experiment, discuss and develop arguments	●	●	●	●	●	●	●