

Key Stage 3 Science

The intent of The Observatory School's Science department is to provide a safe and positively stimulating learning environment where pupils partake in educational practical tasks away from their nurture Bases. High engagement in Science lessons is associated with a high proportion of practical lessons.

Practical work is an essential part of Science education. It gives students the necessary skills for higher education and employment, deepens their knowledge of scientific ideas, develops problem-solving ability, and enables them to participate in the processes of Science. The Science Curriculum also has an active and popular STEM (Science, Technology, Engineering and Maths) club, in which collaborative teaching and project-based work takes place. Pupils are motivated to take part in opportunities to explore STEM in an informal setting, allowing them to experiment, ask questions and tackle challenges that interest them. It is important that our learners have an understanding of basic principles behind STEM as this industry sector will become even more fruitful with employment opportunities as our pupils progress and mature.

Newton Year 7 Sensory	Introduction to Secondary Science 7F Acids and Alkalis	7I Energy 7B Sexual reproduction in animals	7J Current electricity 7E Mixtures and separation	7G The particle model 7C Muscles and bones	7K Forces 7D Ecosystems	7H Atoms, elements and compounds 7L Sound
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	7A Cells, tissues, organs and systems					
Parks Year 7 Social	<p>Introduction to Secondary Science</p> <p>7F Acids and Alkalis</p> <p>7A Cells, tissues, organs and systems</p>	<p>7I Energy</p> <p>7B Sexual reproduction in animals</p>	<p>7J Current electricity</p> <p>7E Mixtures and separation</p>	<p>7C Muscles and bones</p> <p>7G The particle model</p>	<p>7K Forces</p> <p>7D Ecosystems</p>	<p>7H Atoms, elements and compounds</p> <p>7L Sound</p>
Curie Year 8 Sensory	<p>8A Food and nutrition</p> <p>8E Combustion</p>	<p>8I Fluids</p> <p>8B Plants and reproduction</p> <p>Dyson Project</p>	<p>8F The periodic table</p> <p>8J Light</p>	<p>8C Breathing and respiration</p> <p>8G Metals and their use</p>	<p>8K Energy transfers</p> <p>8D Unicellular organisms</p>	<p>8H Rocks</p> <p>8L Earth and space</p>

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Castner Year 8 Social	8A Food and nutrition 8E Combustion	8I Fluids 8B Plants and reproduction Dyson Project	8F The periodic table 8J Light	8C Breathing and respiration 8G Metals and their use	8K Energy transfers 8D Unicellular organisms	8H Rocks 8L Earth and space
Anderson Year 9 Sensory	9A Genetics and evolution 9E Making materials	9I Forces and motion 9B Plant growth	9F Reactivity 9J Force fields and electromagnets	9C Biology revision and projects 9G Chemistry revision and projects 9K Physics revision and projects	9D Biology transition to GCSE 9H Chemistry transition to GCSE	9L Physics transition to GCSE End of Year Test

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Turing Year 9 Social	9A Genetics and evolution 9E Making materials	9I Forces and motion 9B Plant growth	9F Reactivity 9J Force fields and electromagnets	ASDAN Science Short course	ASDAN Science Short course	Transition to GCSE Projects End of Year Test