

## 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.

<b>Newton Year 7 Sensory</b>	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					
<b>Parks Year 7 Social</b>	Introduction to Secondary Science  7F Acids and Alkalis  7A Cells, tissues, organs and systems	7I Energy  7B Sexual reproduction in animals	7J Current electricity  7E Mixtures and separation	7C Muscles and bones  7G The particle model	7K Forces  7D Ecosystems	7H Atoms, elements and compounds  7L Sound
<b>Curie Year 8 Sensory</b>	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

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<b>Castner Year 8 Social</b>	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
<b>Anderson Year 9 Sensory</b>	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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<b>Turing Year 9 Social</b>	9A Genetics and evolution  9E Making materials	9I Forces and motion  9B Plant growth	9F Reactivity  9J Force fields and electromagn ets	ASDAN Science Short course	ASDAN Science Short course	Transition to GCSE Projects  End of Year Test