

Science – Key Stage 3

Intent:

Our KS3 science curriculum covers the core disciplines of Biology, Chemistry and Physics. We teach our students that the science curriculum presents an opportunity to explore the facts behind the things we sense and experience in the world around us. We believe that science is a subject that can be experienced as well as learnt; it presents an opportunity to explore in a practical and engaging way, things that are as old as the universe and things that are as new as this morning.

Woven into the curriculum's knowledge-rich scheme, are the opportunities to develop the skills scientists use to extract and deduce, to create experimental conditions, to hypothesise, to measure results, to record, analyse and present data.

Implementation:

	Term 1	Term 2	Term 3
Year 1	<p>Chemistry: The Periodic Table</p> <ul style="list-style-type: none"> • Numbers on the periodic table tiles - protons/neutrons/electron • Reactions of group 1 • The Hindenburg disaster <p>Physics: Electricity</p> <ul style="list-style-type: none"> • Wiring a plug • Symbols and circuits • National Grid - what is a pylon for? • Calculations - calculate voltage and current 	<p>Biology: Reproduction</p> <ul style="list-style-type: none"> • Fertilisation and pregnancy • Hormones/menstrual cycle • Reproductive systems • Effect of lifestyle of the foetus • Genetic inheritance • Genetics? • Genetic engineering/designer babies? <p>Chemistry: Rate of reaction/chemical reactions</p> <ul style="list-style-type: none"> • What is a chemical reaction? • Practical activities, data collection and interpretation. 	<p>Biology: Organisms</p> <ul style="list-style-type: none"> • Muscles/muscular system • Circulatory system • The skeleton • Digestion • The nervous system • Respiration