Curriculum Overview Key Stage 3 Science

The key stage 3 science curriculum is based upon 10 big ideas in Science: Forces, Electromagnetism, Energy, Waves, Matter, Reactions, Earth, Organisms, Ecosystems and Genes. Each of these ideas is broken down into 4 smaller topics: the building blocks for the big ideas.

Throughout each of these topics, pupils will be introduced to the 3 big assessment ideas for science: Scientific knowledge and application of knowledge, Investigative approaches in science and the Communication and mathematical skills required for science.

Curriculum plan 2021 – 2022

Topics that are highlighted have been moved temporarily between year groups for this academic year, to reflect the loss of learning time in 2020 – 2021.

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	Term 1.1	**Term 1.2**	**Term 2.1**	**Term 2.2**	**Term 3.1**	**Term 3.2**
Year 7	Working Scientifically at Key Stage 3 Organisms: Movement Organisms: Cells	Matter: Particle model Matter: Separating mixtures	Forces: Speed Forces: Gravity Earth: Universe	Reactions: Acids and alkalis Reactions: Metals and non-metals	Genes: Variation Genes: Human reproduction	Ecosystems: Interdependence Ecosystems: Plant reproduction
Year 8	Electromagnetism: current Electromagnetism: Potential difference and resistance Electromagnetism: Magnetism	Electromagnetism: Electromagnetism Organisms: Breathing Organisms: Digestion	Matter: Elements Matter: Periodic Table	Earth: Climate Earth: Earth structure Earth: Earth resources	Energy: Energy costs Energy: Energy transfer Energy: Work and Heating and Cooling	Earth: Universe Forces: Contact Forces Forces: Pressure
Year 9	Forces: Contact Forces and Pressure Waves: Sound and Light Waves: Waves and wave properties	Reactions: Types of reaction Reactions: Chemical energy	Ecosystems: Respiration Ecosystems: Photosynthesis	Genes: Inheritance Genes: Evolution	Introduction to Chemistry for GCSE: States of matter and Atomic Structure	Introduction to Chemistry for GCSE: The Periodic Table