

Curriculum Summary

Science

Year	
7	Cells, Tissues Organs and Systems; Sexual reproduction in Animals; Muscles and Bones; Ecosystems; Mixtures and Separation; Acids and Alkalis; The Particle Model; Atoms, Elements and Molecules,; Energy; Current Electricity; Forces; Sound.
8	Mixtures and Separation; Sound; Energy Transfers; Food & Nutrition; The Periodic Table; Breathing & Respiration; Light; Unicellular Organisms; Combustion; Fluids
9	September – Christmas: ISA Skills, Metals and Rocks Post-Christmas: Start <u>New AQA GCSE</u> Forces & Interactions; Atomic Structure; Cell Structure & Transport; Forces & Motion; Periodic Table; Cell division
10	<u>Old AQA GCSE</u> Drugs against Disease; Hormones; Food Chains; Genetic engineering; Metals; Crude Oil; Polymers; Oil from plants; The Earth; Energy; Electricity; Sound; Waves
11	<u>OCR</u> Living and Growing; It's a Green World; Chemical Economics; The Periodic Table; Forces for Transport; Radiation for Life. Separate Scientists will do It's a Green World; The Periodic Table; Radiation for Life; The Living Body; Beyond the Microscope; How Much?; Chemistry out there; Space for Reflection; Electricity for Gadgets.
12	Biology – <u>New AQA</u> – Biological molecules; Transport in animals and plants; Biodiversity; Gas exchange Chemistry – <u>New AQA</u> – Atomic structure; amount of substance; bonding; periodicity; alkanes; energetics; kinetics; equilibria, redox reactions; group 7; group 2; extraction of metal; haloalkanes; alkenes; alcohols; analytical techniques Physics – <u>New AQA</u> – Particles; quantum phenomena; electricity; mechanics; materials & waves

	<p>BTEC – <u>Edexcel</u> – Fundamental of Science; working in the Science industry; Scientific practical techniques</p>
<p>13</p>	<p>Biology – <u>Old OCR</u> – Homeostasis; photosynthesis; respiration; genome; environment; animal & plant responses</p> <p>Chemistry – <u>Old AQA</u> – Kinetics; equilibria; acids, bases and buffers; nomenclature; isomerism; aromatic chemistry; amines; amino acids; polymerisation; structure determination; thermodynamics; periodicity; redox; transition metals; inorganic reactions</p> <p>Physics – <u>Old AQA</u> – Fields & further mechanics; nuclear & thermal physics; turning points in physics</p> <p>BTEC – <u>Edexcel</u> – Chemistry for Biology Technicians; Astronomy; Physiology of Human Biology</p>