

Science LTP

YEAR	TERM					
	Autumn One	Autumn Two	Spring One	Spring Two	Summer One	Summer Two
Year 7 (KS3)	Science safety and lab skills Fundamentals of force and motion	Particle theory Solutions, chemical changes and chemical reactions	How energy is stored and transferred	Chemical reactions and particle rearrangements	The structure and function of living organisms	The structure and function of living organisms
Year 8 (KS3)	Species interdependence and interaction within an environment	Structure of the atom and historical development over time	Processes of separating mixtures. The use of materials on the earth's atmosphere	Properties and uses of different types of waves	Principles of electricity How magnetic forces can induce electrical current	Genetic evolution
Year 9 (KS3)	How the body regulates and responds to changes in internal and external environments	The role of science in zoology and marine biology	The role of science in cardiology and the human body	The role of science in radiography	Sexual intercourse and fertilisation Role of science in engineering and automotive	Scientific enquiry
Year 10 (KS4)	Particles Atomic structures and the periodic table Cells and cell processes	How animals source and absorb nutrients Electrical charge, circuits and dangers of electricity Basics of electricity	The basics of biogenetics in plants Respiration and transport in animals	Motion Mass Weight	Organisms, their environments and how organisms in an ecosystem depend on each other Chemical changes – extraction of metals and production of salts Waves and the electromagnetic spectrum	Co-ordination of organisms and their response to stimuli Reaction rates Metal properties and the reactivity series

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Year 11 (KS4)	Experimental techniques to separate and purify substances Non-metal bonds and covalent bonding The nature of matter and thermal physics	How humans reproduce How plants reproduce Consolidate stoichiometry Mock Exam Revision	Organic chemistry Light and light refraction	Redox reactions Electrochemistry Group VII Elements The properties of water and air on the earth	Exam consolidation	
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