

Science Curriculum overview 26/27

	8 weeks + 7 weeks		6 + 5 weeks		6+7 weeks	
Y7	Lab safety Energy- heat and heat transfer Particle behaviour Cells	Materials and their properties- composites, ceramics, glass, polymers Body systems Revision and EPA Preparation	Separation techniques- mixtures Forces- actions, squashing, stretching, drag and friction	Atoms, Elements and compounds Sound- sound transfer, echoes, loudness and pitch.	Reproduction in plants and animals Repair and rebuild tasks	Power and energy- energy resources Space- the Earth in space
Y8	Health and lifestyle- diet, exercise, alcohol, drugs Periodic table- elements and patterns	Electricity- circuits Animal and plant processes- photosynthesis, metabolism, respiration Chemical reactions- types of reactions	Motion and pressure- speed and pressure in liquids, levers and moments Adaptation and inheritance- DNA, genetic biology	Metals and acid reactions	Light- reflection and refraction Ecosystems- biodiversity, food chains and webs	Magnetism- fields and magnetic devices The Earth- rocks and the rock cycle, geological processes
Y9	Cell biology- processes in cells and substance movement Mixtures and separation	Conservation and dissipation of energy Cell division and processes	Atomic structure- the atom and subatomic particles Energy by heating Energy resources	Organisation and the digestive system The Periodic table	Transport in animals- circulatory system and the heart The Earth's atmosphere- global warming and the greenhouse effect Particle model and matter- density and SHC	Organisms in their environments- biotic factors, interdependence
Y10	Communicable diseases- infection and response Ions- formation of ions, ionic bonding Electricity Non communicable	Chemical changes- neutralisation, acid reactions Electricity in the home Plant biology- processes in plants	Chemical calculation- moles, mass calculations, products in reactions Forces in balance- contact and non contact forces, Respiration- aerobic and anaerobic, exercise effects	Extraction of metals Radioactivity	Covalent molecules Hydrocarbons Energy changes (in reactions)	The nervous system and hormonal control Fertility and Hormones Waves and wave behaviour (mock exams this half term)

	disease- lifestyle factors on health					
Y11	Inheritance and variation (bio) Rates of reaction (chem) Forces and Motion (phy)	Mock exams 1 Organic Chem (chem) Chemical Analysis (chem) Magnetism (phy)	Waves (phy) Ecology Part 2 (bio) Chemistry of the atmosphere (chem)	Using Resources Mock Exams Space (Triple only)	Revision	