

Science Long term plan

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 7	Cells, tissues, organs, organ systems Mixtures and separation Energy	Sexual reproduction in animals Acids and alkalis Current electricity	Current electricity Muscles and bones The particle model	Forces Ecosystems	Atoms, elements and molecules Sound	Project work
Year 8	Food and nutrition Combustion Fluids	Plants and their reproduction The Periodic Table Light	Breathing and respiration Metals and their uses	Energy transfers Unicellular organisms	Rocks Earth and space	Project work
Year 9	Genetics and evolution Making materials Forces and motion	Plant growth Reactivity Force fields and electromagnets	Characteristics of living organisms Variety of living organisms Level of organisation Cell structure States of matter Elements, compounds, and mixtures	Atomic structure The periodic table Forces – movements and position Forces – movement, shape and momentum	Nutrition Chemical formula, equations and calculations. Mains electricity	Skills and project work
Year 10	Movement of substances in and out of cells States of matter	Nutrition – flowering plants and humans Chemical formula, equations and calculations. Mains electricity	Energy and voltage in circuits Reactivity series Acids, alkalis and titrations	Respiration Gas exchange Energy transfers Work and power Solids, liquids and gases	IGCSE Revision and modular exams	Transport in organisms

	Elements, compounds, mixtures Atomic structure The periodic table Forces - Movements and position Forces – movement, shape and momentum		Acids, bases, salt preparations	Energetics Organic chemistry		
Year 11	Electricity Motors, generators and transformers Household electricity Rate of reaction Defending ourselves against Disease Electromagnetic spectrum	Energy changes Plants as organisms Kinetic theory and energy transfer through heating Variation and inheritance Genetic manipulation	Organic chemistry Ecology Nuclear physics Space physics	Revision for iGCSE	Revision for iGCSE	