

All Hallows

Science



Using a 'big ideas' approach, our curriculum builds increasingly sophisticated knowledge of the products (substantive knowledge) of science. Our curriculum explores links and provides multiple interactions with each 'big idea'. We connect less sophisticated ideas to more abstract ideas throughout the five-year curriculum. This approach enables our pupils to be prepared to apply these concepts in new learning.

Big idea	7	8	9	10	11
A. Forces	Energy Current Electricity Atoms, Elements and Molecules Particle Model	Forces Earth and Space	Forces and Motion Force fields and Electromagnets	P5 Forces, Pressure, Elasticity and Motion P8 Space Physics (Triple)	P5 Forces, Newton's Laws and Momentum C2 Chemical Bonding
	Energy Current Electricity	Sound Light	Energy Transfers Fluids Plant Growth Combustion Force fields and Electromagnets	P1 Energy P2 Electricity (Part 1) P4 Atomic Radiation P6 Waves (Part 1) C5 Energy Transfer B4 Photosynthesis B4 Respiration	P2 Electricity (Part 2) P6 waves (Part 2) P7 Magnetism C5.2 Chemical Cells and Fuel Cells (T)
B. Energy, Waves & Magnets	The Particle Model Atoms, Elements and Molecules Mixtures and Separation Periodic Table Acids and Alkalis	Metals and their uses Making Materials Rocks	Fluids Combustion Reactivity	B4 Photosynthesis B4 Respiration C1.1 Atoms C1.2 Periodic Table C3 Conservation of Mass C5 Energy Transfer C6 Rates of a chemical reaction C8 Chemical Analysis P3 Changes of State and the particle model P4 Atomic Radiation (T)	C2 Chemical Bonding C3 Uses of substances in relation to masses of substances C4.1 Reactivity of Metals C4.2 Reactions of acids with metals C4.3 Electrolysis P4 Atomic Radiation (C)
	Atoms, Elements and Molecules	Rocks Making Materials	Combustion (Fuels)	P4 Atomic Radiation (T) C9 The Earth's Atmosphere C10 Using the Earth's Resources	P4 Atomic Radiation (C) C7 Fuels and Crude Oil
C. Matter & Reactions					
D. Earth					
E. Organisms, Ecosystems & Evolution	Cells, Tissues, Organs and Organ Systems Sexual Reproduction in Animals	Food and Nutrition Breathing and Respiration Muscles and Bones	Ecosystems Unicellular Organisms Genetics & Evolution Plants and their reproduction Plant Growth	B1 Eukaryotes and Prokaryotes B2 Plant Tissues and Organs B2 Health issues, Circulation and Digestion B3 Disease B5 Nervous System	B5 Homeostasis B6 Genetics B6 Evolution B7 Ecology