

	Year 10	Year 11
Biology	<p>Unit 2: Organ Systems Respiratory, digestive & circulatory systems.</p> <p>Unit 3: Health & Disease Communicable and non- communicable diseases, drug development.</p> <p>Unit 4: Photosynthesis & Respiration Photosynthesis, respiration & plant transport.</p>	<p>Unit 5: Homeostasis Homeostasis, nervous system, hormones.</p> <p>Unit 6: Reproduction, DNA & Inheritance Reproduction, inheritance & protein synthesis.</p> <p>Unit 7: Variation & Evolution Selective breeding, genetic modification, cloning, evolution, speciation & classification.</p> <p>Unit 8: Ecology & Food Production Adaptation, interdependence, competition, ecosystems, biodiversity, trophic levels, biotechnology & decay.</p>
Chemistry	<p>Unit 2 Bonding, Structures & Properties of Matter Ionic, covalent & metallic bonds, properties, solids, liquids & gases & nanoparticles.</p> <p>Unit 3: Quantitative Chemistry Conservation of mass, interpretation of chemical equations, moles and yield.</p> <p>Unit 4: Chemical Changes Reactivity series, neutralisation & electrolysis.</p> <p>Unit 5: Energy Changes Exothermic & endothermic reactions, & fuel cells.</p>	<p>Unit 6: Rates of Reaction Rates of reaction, reversible reactions & dynamic equilibrium.</p> <p>Unit 7: Organic Chemistry Carbon compounds as fuels, alkenes, alcohol & polymers.</p> <p>Unit 8: Chemical Analysis Purity, identifying gases & identifying ions.</p> <p>Unit 9: The Atmosphere Earth's atmosphere, greenhouse gases & pollutants.</p> <p>Unit 10: Using Resources Potable water, materials & the Haber process.</p>

Physics	<p>Unit 2: Electricity Static (triple students only), circuits & domestic electricity.</p> <p>Unit 3: Particles of Matter States of matter, density, internal energy, specific latent heat & gas pressure.</p> <p>Unit 4: Radioactivity Atomic structure, isotopes, radioactive decay, nuclear fission & fusion (triple students only).</p>	<p>Unit 5: Forces Forces & motion, pressure, moments, momentum, Hooke's Law.</p> <p>Unit 6: Waves Properties of waves, electromagnetic spectrum, colour & lenses (triple students only).</p> <p>Unit 7: Electromagnetism Magnets, electromagnets, motors, generators & transformers (triple students only).</p> <p>Unit 8 Space (triple students only) Solar system, stars, orbits & the Universe.</p>
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