

Triple Science Subject Academic Curriculum Overview

Year	<i>Term - Content</i>						<i>Transition Milestones</i>
	Sept – Oct	Oct- Dec	Jan-Feb	Feb-Mar	April – May	June-July	By the end of the year students will have learned to apply the following skills through the content studied.....
10	Physics – P4 Electric circuits Biology – Recap yr 9 content B4 Organising animals and plants, blood, gas exchange and transport systems in plants. Chemistry – Recap yr 9 content C4 – Chemical calculations Begin C5 Chemical changes	Physics – P5 Electricity in the home Biology – B5, B6, B7 communicable, non-communicable disease and the prevention of disease. Growing bacteria required practical. Chemistry – C5 chemical changes continued and making salts required practical.	Physics – P9 Motion P8 Forces in balance Biology - B8 photosynthesis Rate of photosynthesis required practical. Chemistry – C6 Electrolysis and required practical	Physics – P8 Complete Forces in balance P10 Forces and motion Biology – B9 respiration B10 Nervous system Chemistry – C7 Energy changes temperature changes required practical.	Physics – P11 Force and Pressure Paper 1 retrieval in preparation for the mock exam Biology – B11 Hormonal control Seedling growth Required practical. Chemistry – C8 Rates and equilibrium and required practical (rates.)	Physics – Mock exam revision Biology – Mock exam revision. Chemistry – Mock exam revision	Complete various chemical reactions and explain the observations using atomic knowledge. Developing the analysis of primary and secondary data Investigation planning including identification of variables. Manipulation of data in equations, conversion of units. Producing balanced symbol equations, including state symbols. Construction of circuits. Taking a range of measurements. Application of knowledge to unfamiliar situations. Covering the AT skills and maths skills from the specification. Developing competency with literacy skills to describe, explain and evaluate scientific concepts and required practicals.

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11	Physics – P12 Wave properties and Wave required practicals P6 Retrieval molecules and matter Biology – B12 Homeostasis in action B13 Reproduction. Chemistry – C8 Rates (finish) C9 Crude oil .	Physics P12 Wave properties continuing with sound waves, interleaved with states of matter for explaining speed P13 Electromagnetic waves P14 Light Biology – B14 Variation and evolution B15 Genetics and evolution Chemistry – C10 Organic reactions C11 Polymers	Physics – P15 Electromagnetism Biology – B16 Adaptation, interdependence and competition. Interdependence required practicals. B17 Organising an ecosystem Chemistry – C12 Chemical analysis and required practical. C13 The Earth’s atmosphere	Physics – P16 Space Biology – B18 Biodiversity and ecosystems. Decay required practical. Chemistry – C14 The Earth’s resources C15 Using our resources.	Physics – retrieval and revision exam practice Biology – retrieval practice B1 and B2, exam prep Chemistry – r etrieval practice C1 and C2, exam prep	revision/exams	Apply chemical understanding to industry and the planet Explain the induction of magnetic and electric fields Describe the reliance of organisms on each other within an ecosystem Manipulation of data in equations, conversion of units. Covering the AT skills and maths skills from the specification. Developing competency with literacy skills to describe, explain and evaluate scientific concepts and required practicals.