Triple Science Subject Academic Curriculum Overview										
Year	Term - Content									
	Sept – Oct	Oct- Dec	Jan-Feb	Feb-Mar	April – May	June-July	Milestones By the end of the year students will have learned to apply the following skills through the content studied			
9	Physics- Density +required practical Kinetic theory Biology — Cell structure and the microscope. Required practical microscopes. Chemistry — Atomic structure	Physics: Specific Latent heat Specific heat capacity Gas temperature and pressure Gas pressure and volume Biology — Cell transport including osmosis required practical. Atomic structure	Physics: Conservation of energy Energy calculations Energy efficiency Biology - Cell division Chemistry – Chemistry – The periodic table	Physics: Heating and insulating buildings and thermal conductivity Energy resources Biology - Organisation in animals and plants including food tests required practical Chemistry – structure and bonding	Physics: Types of radioactivity Half life Discovery of the nucleus Decay equations Medical uses Biology - Organisation in animals and plants including enzymes required practical Chemistry – structure and bonding	Physics: Nuclear fission Nuclear fusion Nuclear issues Biology – Organising animals and plants, the heart. Chemistry – structure and bonding	Initial GCSE content following AQA specifications Apparatus and technique skills as covered by the specification Developing the analysis of primary and secondary data. Exam techniques.			
10	Physics Static Electricity Current and charge Series and parallel circuits Resistance and components required practicals. Biology – Organising animals and plants, blood, gas exchange and transport systems in plants. Chemistry – chemical calculations titration required practical.	Physics Mains electricity Plugs, fuses and earth wires Energy and charge Power and efficiency Biology – communicable, non-communicable disease and the prevention of disease. Growing bacteria required practical. Chemistry – chemical changes and making salts required practical.	Forces and motion Vectors and scalars Resultant forces Velocity and acceleration Motion graphs Acceleration required practical Biology - photosynthesis and respiration Rate of photosynthesis required practical. Chemistry – Electrolysis and required practical	Physics Moments, levers and gears Centre of mass Weight and mass Hooke's law required practical Terminal velocity Stopping distances Biology – nervous system and hormonal control. Adaptation, interdependence and competition. Human reaction time, seedling growth and interdependence required practicals Chemistry – Energy changes temperature changes required practical.	Physics Momentum Conservation of momentum Impact forces Pressure and surfaces Pressure and liquids Atmospheric pressure Up thrust and flotation Paper 1 retrieval in preparation for the mock exam Biology – Reproduction, variation and evolution. Chemistry – Rates and equilibrium and required practical (rates.)	Physics Mock exam Biology - Biodiversity and ecosystems. Decay required practical. Chemistry – Haber .process	Initial GCSE content following AQA specifications Apparatus and technique skills as covered by the specification Developing the analysis of primary and secondary data Exam techniques.			

Reflection and refraction required practical Wave required practicals Retrieval molecules and matter Biology – DNA, the genome, expression and mutation. Antibiotic resistant bacteria. Chemistry – Crude oil, organic chemistry and polymers Chemistry – Using our resources. Chemistry – Using our resources. Reflection and refraction required practical Seismic waves Electromagnetic Spectrum Biology - Adaptation, interdependence and competition. Interdependence required practical. Interdependence required practical. Chemistry – Crude oil, organic chemistry and polymers Chemistry – Using our resources. Chemistry – Using our resources. Chemistry – The Earth's atmosphere and resources. Water required practical. Chemistry – Using our resources, Haber .process Chemistry – Using our resources, Haber .process Chemistry – Using our resources, Haber .process	11	required practical Wave required practicals Retrieval molecules and matter Biology – DNA, the genome, expression and mutation. Antibiotic resistant bacteria. Chemistry – Crude oil, organic chemistry and polymers Chemistry – Using our	Seismic waves Electromagnetic spectrum Biology – DNA, the genome, expression and mutation. Antibiotic resistant bacteria. Chemistry – chemical analysis and required practicals (Rf values and	Transformers Biology - Adaptation, interdependence and competition. Interdependence required practicals. Chemistry – The Earth's atmosphere and resources. Water	Biology - Biodiversity and ecosystems. Decay required practical. Chemistry – Using our resources. Chemistry– Using our	practice P1 and 2, exam prep Chemistry - retrieval practice P1 and 2, exam	revision/exams	
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