



The Grey Coat Hospital

Key Stage Four Curriculum Plan - *Subject: Science*



Year 10

Half Term (HT)	Topic Area / Focus			
HT1	Combined science: Genetics (short recap) Radioactivity (short recap) Acids and alkalis Cells and control Meiosis	<u>Separate Chemistry:</u> Acids and Alkalis Balancing Equations	<u>Separate Physics:</u> Radioactivity Waves	<u>Separate Biology</u> Key concepts recap and triple content Cells and control
HT2	Combined science: Natural selection and genetic modification Forces Waves Calculations	Calculations	Waves	Cells and control Genetics recap
HT3	Combined science: Plants Obtaining metals and life cycle assessments Electrolysis	SC1 – Titrations SC1 – % yield and atom economy SC1 – Molar Gas Volumes	Energy Astrophysics	Cells and control Genetics
HT4	Combined science: Equilibrium Rates of reaction	Dynamic Equilibrium SC1 – Fertilisers SC1 – Chemical and Fuel Cells	Astrophysics Forces	Genetics Natural selection and genetic modification
HT5	Combined science: Forces and matter	SC1 – Transition metals and alloys	Forces Electricity	Natural selection and genetic modification



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	Particle model Exchange and transport in animals	Reactivity Extracting metals		Plants
HT6	Combined science: Ecosystems Exam intervention	Exam intervention Electrolysis	Electricity	Plants
Year 11				
Half Term (HT)	Topic Area / Focus			
HT1	Combined science: Groups in the periodic table, rates of reaction (short recap) Science skills Fuels Ecosystems	<u>Separate Chemistry:</u> Extracting metals and electrolysis SC1 – Transition Metals and Alloys Groups in the Periodic Table	<u>Separate Physics:</u> Electricity + Static electricity Forces and Energy	<u>Separate biology</u> Exchange and Transport Animal coordination, control and homeostasis
HT2	Combined science: Electricity Homeostasis Magnets and electromagnets	Rates of Reaction (including spiral with SC1 – Dynamic Equilibrium) Fractional Distillation and Hydrocarbons (Inc SC2 Alkenes)	Forces and Energy Particle model	Animal Coordination, control and homeostasis
HT3	Combined science: Exam intervention Atmospheric chemistry	SC2 - Alcohols and Carboxylic Acids SC2 - Polymers	Forces and matter Magnetism and Electromagnetism	Animal Coordination, control and homeostasis
HT4	Combined science:	Atmosphere	Magnetism and Electromagnetism	Ecosystems and material cycles



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	Revision	SC2 - Materials Science SC2 – Qualitative Analysis		
HT5	Combined science: Revision and exams start	Revision and Exams	Revision and exams start	Ecosystems and material cycles
HT6	No lessons			