

Year 11 Six Week Plan Subject: GCSE Combined Biology

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	Key areas of focus in lessons.	Key areas of focus in Academic Enrichment.	Key areas of focus for homework.	Key areas of focus for independent learning .
1	Retrieval Questions from Cell Biology Methods of transport (diffusion, Osmosis, Active transport) Types of cells (eukaryotes and prokaryotes) Cell differentiation&specialisation Chromosomes and mitosis Stem cells	Required practical the light microscope Y Band	https://www.bbc.co.uk/bitesize/topic s/z2mttv4 Revision guide: H&F: 11-22	Cell biology Diffusion Osmosis (include required practical) Active transport Exchange surfaces Exchanging substances Types of cells (eukaryotes and prokaryotes) Microscopy and magnification (include required practical) Cell differentiation and specialisation Chromosomes and mitosis Stem cells https://www.bbc.co.uk/bitesize/topics/z2mttv4
2	Retrieval questions from animal Organisation Respiratory system Cardiovascular system Cardiovascular disease Cell organisation in animals Enzymes (including required practical) Food tests (including required practical) Digestive system	Required practical the light microscope X Band	https://www.bbc.co.uk/bitesize/topic s/zwj22nb Revision guide: F: 24-32 H:24-38	Animal Organisation Respiratory system Cardiovascular system Cardiovascular disease Health and risk factors Cancer Cell organisation in animals Enzymes (including required practical) Food tests (including required practical) Digestive system https://www.bbc.co.uk/bitesize/topics/zwj22nb
3	Retrieval questions from plant Organisation Cell organisation in plants Transport systems in plants Evaporation and transpiration Factors affecting transpiration	Required practical Making Salts Y band	https://www.bbc.co.uk/bitesize/topic s/zwj22nb Revision guide: F: 38-41 H: 39-41	Plant Organisation Cell organisation in plants Transport systems in plants Evaporation and transpiration Factors affecting transpiration https://www.bbc.co.uk/bitesize/topics/zwj22nb



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4	Retrieval questions from communicable diseases & preventing and treating disease Pathogens 4 types, symptoms, and prevention /treatment of diseases Human defence responses	Required practical Making Salts X band	https://www.bbc.co.uk/bitesize/guid es/zcqs2nb/revision/1 https://www.bbc.co.uk/bitesize/topic s/z9kww6f Revision guide: F: 42-49 H: 43-49	Infection and Response Pathogens and disease (viral, bacterial, fungi and protists) Preventing infections Human defence responses https://www.bbc.co.uk/bitesize/topics/z9kww6f		
5	Retrieval questions from non communicable disease Non communicable diseases Cancer Coronary heart disease Risk factors Smoking & alcohol	Required practical Specific heat capacity Y band	https://www.bbc.co.uk/bitesize/guid es/z9dhjty/revision/1 Revision guide: F: 33-37 H: 34-38	Non communicable diseases Non communicable diseases Cancer Coronary heart disease Risk factors Smoking, alcohol and other carcinogens https://www.bbc.co.uk/bitesize/guides/z9dhjty/revision/1		
6	Retrieval Question from Bioenergetics Photosynthesis How plants use glucose Limiting factors in photosynthesis (Higher only) Metabolism Aerobic and anaerobic respiration Response to exercise	Required practical Specific heat capacity Y band	https://www.bbc.co.uk/bitesize/guid es/zs4mk2p/revision/1 https://www.bbc.co.uk/bitesize/guid es/zp4mk2p/revision/1 Revision guide: F: 50-55 H: 50-56 50-56	Bioenergetics Photosynthesis Rate of photosynthesis (including required practical) How plants use glucose Limiting factors in photosynthesis (Higher only) Metabolism (& the liver Higher only) Aerobic and anaerobic respiration Response to exercise https://www.bbc.co.uk/bitesize/guides/zs4mk2p/revision/1 https://www.bbc.co.uk/bitesize/guides/zp4mk2p/revision/1		



Year 11 Six Week Plan Subject: GCSE Combined Chemistry

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	Key areas of focus in lessons.	Key areas of focus in Academic Enrichment.	Key areas of focus for homework.	Key areas of focus for independent learning .	
1	Retrieval Questions from atomic structure and periodic table Atoms, elements and compounds Mixtures, Electronic structure Metals and non-metals Group 1,7 and 0	Required practical the light microscope Y Band	https://www.bbc.co.uk/bitesize/to pics/zcckk2p https://www.bbc.co.uk/bitesize/to pics/zcckk2p Revision guide: F:96-111 H:96-110	Atomic structure and the periodic table Atoms, elements and compounds Chemical equations Mixtures, chromatography and separating techniques (including required practical) History of the atom Electronic structure, ions, atoms and isotopes Development of the periodic table and the modern periodic table Metals and non-metals Group 1, 7 and 0 elements https://www.bbc.co.uk/bitesize/topics/zcckk2p https://www.bbc.co.uk/bitesize/topics/zcckk2p	
2	Retrieval questions from structure and bonding Formation of ions Ionic bonding Covalent bonding Giant covalent structures Metallic bonding States of matter and changing state	Required practical the light microscope X Band	https://www.bbc.co.uk/bitesize/to pics/z33rrwx Revision guide: F:113-122 H:112- 121	Structure and bonding Formation of ions Ionic bonding and ionic compounds Covalent bonding with simple molecules Giant covalent structures Fullerenes and graphene Metallic bonding States of matter and changing state https://www.bbc.co.uk/bitesize/topics/z33rrwx	
3	Retrieval questions from chemical calculations Relative formula mass Conservation of mass Limiting reactants (higher only) Concentrations in solutions	Required practical Making Salts Y band	https://www.bbc.co.uk/bitesize/to pics/zsnyy4j Revision guide: F: 123- 126 H:123- 128	Chemical calculations Relative formula mass The mole (higher only) Conservation of mass Limiting reactants (higher only) Concentrations in solutions Write balanced half equations and ionic equationshttps://www.bbc.co.uk/bitesize/topics/zsnyy4j	



Year 11 Six Week Plan Subject: GCSE Combined Chemistry

	Key areas of focus in lessons.	Key areas of focus in Academic Enrichment.	Key areas of focus for homework.	Key areas of focus for independent learning .
4	Retrieval questions from chemical changes Acids and bases Reactions of acids Reactivity series and displacement reactions Separating metals and metal oxides Redox reactions (higher only) Neutralisation and the pH scale	Required practical Making Salts X band	https://www.bbc.co.uk/bitesize/to pics/zt6ppbk Revision guide: F:128 - 131 H: 129- 134	Chemical changes Acids and bases with strong acids and weak acids Reactions of acids (including the required practical) Reactivity series and displacement reactions Separating metals and metal oxides Making salts from metals and insoluble bases Redox reactions (higher only) Neutralisation and the pH scale https://www.bbc.co.uk/bitesize/topics/zt6ppbk
5	Retrieval questions from electrolysis Electrolysis Half equations at the electrodes (higher only) Electrolysis of aqueous solutions (higher only) Extraction of aluminium	Required practical Specific heat capacity Y band	https://www.bbc.co.uk/bitesize/gui des/z9h9v9q/revision/1 Revision guide: F: 132-133 H:135- 136	Electrolysis Electrolysis (including the required practical) Half equations at the electrodes (higher only) Electrolysis of aqueous solutions (higher only) Extraction of aluminium https://www.bbc.co.uk/bitesize/guides/z9h9v9q/revision/1
6	Retrieval Question from energy changes Exothermic and endothermic reactions energy transfers Bond energies (higher only) Reaction profiles	Required practical Specific heat capacity Y band	https://www.bbc.co.uk/bitesize/to pics/z27xxfr Revision guide:F: 134-136 H:138- 140	Energy changes Exothermic and endothermic reactions (required practical) energy transfers from reactions Bond energies (higher only) Reaction profiles https://www.bbc.co.uk/bitesize/topics/z27xxfr



Year 11 Six Week Plan Subject: GCSE Combined Physics

	Key areas of focus in lessons.	Key areas of focus in Academic Enrichment.	Key areas of focus for homework.	Key areas of focus for independent learning .
1	Retrieval Questions from energy stores Changes in energy stores Conservation of energy Energy and work and power Types of energy stores energy and efficiency (Higher only increasing efficiency) Conduction and radiation Specific heat capacity	Required practical the light microscope Y Band	https://www.bbc.co.uk/bitesize/gu Hides/zskp7p3/revision/1 Revision guide: F: 167-172 H:167 – 174	Energy stores Changes in energy stores Conservation of energy Energy and work Types of energy stores Energy and power energy and efficiency (Higher only increasing efficiency) Conduction Radiation Specific heat capacity (include required practical) Heating and insulating buildings https://www.bbc.co.uk/bitesize/guHides/zskp7p3/revision/1
2	Retrieval questions from energy resources Energy demands Energy from wind and water Energy and the environment Energy issues	Required practical the light microscope X Band	https://www.bbc.co.uk/bitesizetran/topics/z89ddxs Revision guide: F:173-177 H:175 - 179	Energy resources Energy demands Energy from wind and water Energy and the environment Energy issues https://www.bbc.co.uk/bitesize/topics/z89ddxs
3	Retrieval questions from electricity Current and charge Potential difference and resistance Series and parallel circuits Component characteristics	Required practical Making Salts Y band	https://www.bbc.co.uk/bitesize/to pics/zcg44qt Revision Guide:F:180-187 H 179- 185	Electricity Current and charge Potential difference and resistance (include required practical) Series and parallel circuits Component characteristics (include required practical) https://www.bbc.co.uk/bitesize/topics/zcg44qt



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	Key areas of focus in lessons.	Key areas of focus in Academic Enrichment.	Key areas of focus for homework.	Key areas of focus for independent learning.
4	Retrieval questions from electricity in the home Alternating current Cables and plugs Electrical power and potential difference Electrical currents and anergy transfer Appliances and efficiency	Required practical Making Salts X band	https://www.bbc.co.uk/bitesize/to pics/zcg44qt Revision guide: F:188-191 H:186- 189	Electricity in the home Alternating current Cables and plugs Electrical power and potential difference Electrical currents and anergy transfer Appliances and efficiency https://www.bbc.co.uk/bitesize/topics/zcg44qt
5	Retrieval questions from particle model of matter Density States of matter and changes of state Internal energy Specific latent heat Gas pressure and temperature	Required practical Specific heat capacity Y band	https://www.bbc.co.uk/bitesize/to pics/zshssrd Revision guide: F:193-196 H:191- 194	Particle model of matter Density (include required practical) States of matter and changes of state Internal energy Specific latent heat Gas pressure and temperature https://www.bbc.co.uk/bitesize/topics/zshssrd
6	Retrieval Question from radioactivity Atoms and radiation The nucleus Types of radiation Half life	Required practical Specific heat capacity Y band	https://www.bbc.co.uk/bitesize/guides/zpkbv9q/revision/1 Revision Guide: F: 197- 201 H:195-199	Atomic structure (Radioactivity) Atoms and radiation The nucleus Types of radiation Half life Calculating decline in radioactivity (higher only) https://www.bbc.co.uk/bitesize/guides/zpkbv9q/revision/1