

Revision (5–6 weeks from exam)

Session	Topic	Subtopic	Important lessons	Done
1	Unit 3: Area of Study 1	Obtaining Energy From Fuels	<u>Enthalpy, Application of the Ideal Gas Law, Stoichiometric Calculations Involving Gases</u>	<input type="radio"/>
		Fuel Choices	<u>Comparing Fossil Fuels and Biofuels, Environmental Impact of Fossil Fuels and Biofuels</u>	<input type="radio"/>
2		Galvanic Cells as a Source of Energy	<u>Redox Reaction Equations, Oxidation States – Worked Examples, Standard Reduction Potentials (Part 2): Cell Reactions</u>	<input type="radio"/>
		Fuel Cells as a Source of Energy	Hydrogen Fuel Cell	<input type="radio"/>
3	Unit 3: Area of Study 2	Rate of Chemical Reactions	Collision Theory and Reaction Rates (<u>Part 1</u> and <u>Part 2</u>), Maxwell-Boltzmann Distribution (<u>Part 1</u> and <u>Part 2</u>)	<input type="radio"/>
		Extent of Chemical Reactions	<u>Le Chatelier's Principle (Part 1 and Part 2), Using RICE Tables and Equilibrium Constants</u>	<input type="radio"/>
4		Production of Chemicals by Electrolysis	<u>Electrolysis of Molten Ionic Compounds, Effects of Concentration on Electrolysis of Sodium Chloride and Copper Sulfate</u>	<input type="radio"/>
		Rechargeable Batteries	<u>Comparing Electrochemical Cells</u>	<input type="radio"/>
5	Unit 4: Area of Study 1	Structure and Nomenclature of Organic Compounds	<u>Drawing Compounds from their Names, Structural Isomerism, Cis/Trans Isomerism</u>	<input type="radio"/>
		Categories, Properties and Reactions of Organic Compounds	<u>Condensation Reactions: Formation of Esters, Identifying and Naming Esters, Comparing Boiling Point and Solubility of Organic Compounds, Reaction Pathways</u>	<input type="radio"/>

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Session	Topic	Subtopic	Important lessons	Done
6	Unit 4: Area of Study 1	Analysis of Organic Compounds	Applying Infrared Spectroscopy, Interpreting Proton NMR Spectroscopy, Interpreting Carbon-13 NMR Spectra, Mass Spectrometry: Structure of Organic Molecules, Titration Calculations, Titrations and pH curves	<input type="checkbox"/>
7	Unit 4: Area of Study 2	Key Food Molecules	Proteins as Condensation Polymers, Protein Bonds (Part 1 and 2), Polysaccharides and Examples, Triglycerides	<input type="checkbox"/>
8		Metabolism of Food in the Human Body	Factors Affecting Enzyme Activity, Hydrolysis of Carbohydrates, Hydrolysis of Fats and Oil	<input type="checkbox"/>
		Energy Content of Food	Glycaemic Index	<input type="checkbox"/>

Practice (3–4 weeks from exam)

Session	Topic	Subtopic	Confidence	Done
9	Unit 3: Area of Study 1	Obtaining Energy From Fuels	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div></div>
		Fuel Choices	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div></div>
10		Galvanic Cells as a Source of Energy	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div></div>
		Fuel Cells as a Source of Energy	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div></div>
11	Unit 3: Area of Study 2	Rate of Chemical Reactions	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div></div>
		Extent of Chemical Reactions	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div></div>
12		Production of Chemicals by Electrolysis	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div></div>
		Rechargeable Batteries	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div></div>
13	Unit 4: Area of Study 1	Structure and Nomenclature of Organic Compounds	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div></div>
		Categories, Properties and Reactions of Organic Compounds	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div></div>
14	Unit 4: Area of Study 1	Analysis of Organic Compounds	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div></div>
15	Unit 4: Area of Study 2	Key Food Molecules	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div></div>
16		Metabolism of Food in the Human Body	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div></div>
		Energy Content of Food	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div></div>