

## Year 11 - AQA GCSE Chemistry 8462

Timing	Unit Title	Key Question	Knowledge	Assessing understanding
Autumn Term 1	<b>Organic chemistry</b>  <b>Chapter 10</b> <b>Chapter 11</b>	<b>How do functional groups affect the chemistry of organic molecules?</b>	<ul style="list-style-type: none"> <li>• Reactions of alkanes and alkenes</li> <li>• Reactions of alcohols</li> <li>• Reactions of carboxylic acids</li> <li>• Ester functional group</li> <li>• Addition and condensation polymers</li> <li>• The structure of DNA and natural polymers</li> </ul>	<p><b>How understanding is assessed</b></p> <p>Students will be assessed on their ability to:</p> <ul style="list-style-type: none"> <li>• Recall the knowledge covered</li> <li>• Explain chemical phenomena</li> <li>• Interpret graphical and experimental data</li> <li>• Plan and describe valid experiments</li> <li>• Evaluate experimental procedures and results</li> </ul> <ul style="list-style-type: none"> <li>• Description</li> <li>• Explanation</li> <li>• Evaluation</li> <li>• Comparison</li> <li>• Planning and carrying out investigations</li> </ul> <p><b>Assessment point information</b></p> <p>Based on:</p> <ul style="list-style-type: none"> <li>• Written test on organic chemistry</li> <li>• Required Practical 7 – Identifying unknown substances</li> <li>• Teacher continuous assessment</li> </ul>
Autumn Term 2	<b>Chemical analysis</b>  <b>Chapter 12</b>	<b>How can we identify an unknown chemical substance?</b>	<ul style="list-style-type: none"> <li>• Chromatography</li> <li>• Testing gases</li> <li>• Testing for cations</li> <li>• Testing for anions</li> <li>• Instrumental analysis</li> </ul>	

Spring Term 1	<b>Mock exams</b>	<b>Are you on track to achieve your target grade in Chemistry?</b>	<ul style="list-style-type: none"> <li>● Mock examination paper covering all work to date from Years 9, 10 and 11</li> </ul>	<p><b>How understanding is assessed</b> Students will be assessed on their ability to:</p> <ul style="list-style-type: none"> <li>● Recall the knowledge covered</li> <li>● Explain chemical phenomena</li> <li>● Interpret graphical and experimental data</li> <li>● Plan and describe valid experiments</li> <li>● Evaluate experimental procedures and results</li> </ul> <ul style="list-style-type: none"> <li>● Description</li> <li>● Explanation</li> <li>● Evaluation</li> <li>● Comparison</li> <li>● Planning and carrying out investigations</li> <li>● Chemical calculations</li> </ul> <p><b>Assessment point information</b></p> <p>Based on:</p> <ul style="list-style-type: none"> <li>● Mock exam</li> <li>● Written test on Earth's resources</li> </ul>
	<b>Earth's resources</b>  <b>Chapter 14</b>	<b>What chemical resources does the Earth offer?</b>	<ul style="list-style-type: none"> <li>● Water and water purification</li> <li>● Metal extraction</li> <li>● Life-cycle assessments</li> <li>● Alloys and rusting</li> </ul>	
Spring Term 2	<b>Using resources</b>  <b>Chapter 15</b>  <b>Chemical Equilibrium</b>  <b>Chapter 8</b>	<b>How are Earth's resources used ?</b>	<ul style="list-style-type: none"> <li>● Glass, composites and polymers</li> <li>● Equilibrium process and controlling equilibria in industry</li> <li>● Making ammonia</li> <li>● Fertilisers</li> </ul>	

Summer Term	<b>Revision and study leave</b>	<b>What is the best preparation for the GCSE exam papers?</b>	<ul style="list-style-type: none"><li>● Revision and exam paper practice</li></ul>	<p><b>How understanding is assessed</b></p> <p>Students will be assessed on their ability to:</p> <ul style="list-style-type: none"><li>● Recall the knowledge covered</li><li>● Explain chemical phenomena</li><li>● Interpret graphical and experimental data</li><li>● Plan and describe valid experiments</li><li>● Evaluate experimental procedures and results</li></ul> <ul style="list-style-type: none"><li>● Description</li><li>● Explanation</li><li>● Evaluation</li><li>● Comparison</li><li>● Planning and carrying out investigations</li><li>● Chemical calculations</li></ul> <p><b>Assessment point information</b></p> <p>Based on:</p> <ul style="list-style-type: none"><li>● GCSE grade</li></ul>
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