

Year 11 - AQA GCSE Chemistry 8462

Timing	Unit Title	Key Question	Knowledge	Assessing understanding
Autumn Term	Organic chemistry Chapter 10 Chapter 11	How do functional groups affect the chemistry of organic molecules?	<ul style="list-style-type: none"> Reactions of alkanes and alkenes Reactions of alcohols Reactions of carboxylic acids Ester functional group Addition and condensation polymers The structure of DNA and natural polymers 	<p>How understanding is assessed</p> <p>Students will be assessed on their ability to:</p> <ul style="list-style-type: none"> Recall the knowledge covered Explain chemical phenomena Interpret graphical and experimental data Plan and describe valid experiments Evaluate experimental procedures and results
	Periodic Table Chapter 2	How does the Periodic Table help us predict trends in reactivity?	<ul style="list-style-type: none"> Using the Periodic Table Group 1 – reactions and properties Group 7 – reactions and properties Explaining trends. Transition Metals 	<p>Skills</p> <ul style="list-style-type: none"> Description Explanation Evaluation Comparison Planning and carrying out investigations
	Chemical Equilibrium Chapter 8	How can we economically influence yield in a reversible reaction?	<ul style="list-style-type: none"> Equilibrium process and controlling equilibria in industry Making ammonia Fertilisers 	<p>Assessment information</p> <p>Assessment point data based on:</p> <ul style="list-style-type: none"> Written test on organic chemistry <p>Student understanding will also be checked using:</p> <ul style="list-style-type: none"> Short written test covering the periodic table Short written test covering equilibria <p>This will not be used to inform an assessment point reported home.</p>

Spring Term	Mock exams	Are you on track to achieve your target grade in Chemistry?	<ul style="list-style-type: none"> Mock examination paper covering all work to date from Years 9, 10 and 11 	<p>How understanding is assessed</p> <p>Students will be assessed on their ability to:</p> <ul style="list-style-type: none"> Recall the knowledge covered Explain chemical phenomena Interpret graphical and experimental data Plan and describe valid experiments Evaluate experimental procedures and results
	Chemical analysis	How can we identify an unknown chemical substance?	<ul style="list-style-type: none"> Chromatography Testing gases Testing for cations Testing for anions Instrumental analysis 	<p>Skills</p> <ul style="list-style-type: none"> Description Explanation Evaluation Comparison Planning and carrying out investigations Chemical calculations
	Earth's resources	What chemical resources does the Earth offer and how are they used?	<ul style="list-style-type: none"> Water and water purification Metal extraction Life-cycle assessments Alloys and rusting Glass, composites and polymers 	<p>Assessment information</p> <p>Assessment point data based on:</p> <ul style="list-style-type: none"> Mock exam <p>Student understanding will also be checked using:</p> <ul style="list-style-type: none"> Short written test on Earth's resources Required Practical 7 – Identifying unknown substances Required practical 8 - Distillation <p>This will not be used to inform an assessment point reported home.</p>

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