

CURRICULUM OVERVIEW

Please contact your child's subject teacher or Head of Department for answers to subject related questions

SUBJECT	TRIPLE CHEMISTRY	YEAR GROUP	KS4
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Y10	Lesson Content	Subject Assessment Methods	Opportunities for Home Learning
In terms 1 and 2, the curriculum is taught on a rota basis. This allows for increased availability of practical equipment. Students will have completed identical work by the end of each term, depending on their tier of entry.			
HALF TERM 1	(Some will have begun post Year 10 examinations) <ul style="list-style-type: none"> Atomic theory, electronic structures & formation of chemical bonds Bonds, properties and their uses. Nanoscience : structures, properties& uses of nanomaterials Properties of polymers Rates of reaction : effects of temperature, concentration, surface area & catalysts Quantitative chemistry : formula mass, empirical formula, percentage composition Energy changes in reactions : exothermic, endothermic& reversible reactions Uses of electrolysis Salt preparations 	<ul style="list-style-type: none"> Progress tracked using written topic tests produced from exemplar exam questions. This provides very accurate information on student progress in the form of a GCSE type grade. This information is used to inform intervention planning for individual students. ISAs (coursework aspect) give us an approximate grade for current performance 	<ul style="list-style-type: none"> Use of revision guide/exercise books to consolidate learning is expected after every lesson. Homework based on current topic written examination questions. Access to "Shared files" on the school website for use with homework and revision. Revision in preparation for exams plays a large role in homework from half term 4 onwards
HALF TERM 2			<u>Resource material available for student use</u> Students are advised of relevant websites and how to gain access to files available on the school website.

	<ul style="list-style-type: none"> Revision for the CHY 2 paper 		
HALF TERM 3	Post CHY2 examination study of Chemistry unit 3.		
HALF TERM 4	<ul style="list-style-type: none"> Development of the Periodic Table (History & trends) Hardness of water : causes, problems and remedies Water treatment Calculations of energy changes in reactions Chemical analysis : instruments & techniques Haber process: synthesis of ammonia Alcohols, carboxylic acids & esters Revision for the final examination in May Practice at written examinations 		
HALF TERM 5			
HALF TERM 6			
Y11		Lesson Content	Subject Assessment Methods
<p>In terms 1 and 2, the curriculum is taught on a rota basis. This allows for increased availability of practical equipment. Students will have completed identical work by the end of each term, depending on their tier of entry.</p>			
HALF TERM 1	(Completion of material started in Year 10 in preparation for the Chemistry 2 paper in January 2012) <ul style="list-style-type: none"> Atomic theory, electronic 	<ul style="list-style-type: none"> Progress tracked using topic tests produced from past paper exam 	<ul style="list-style-type: none"> Use of revision guide/exercise books to consolidate learning is

	<p>structures & formation of chemical bonds</p> <ul style="list-style-type: none"> • Bonds, properties and their uses. • Nanomaterials : structures & uses • Rates of reaction : effects of temperature, concentration, surface area & catalysts • Quantitative chemistry : formula mass, empirical formula, percentage composition • Reversible reactions including the Haber process • Energy changes in reactions : exothermic & endothermic reactions • Uses of electrolysis • Salt preparations 	<p>questions. This provides very accurate information on student progress in the form of a GCSE type grade. This information is used to inform intervention planning for individual students.</p> <ul style="list-style-type: none"> • Completion of Chemistry 2 in preparation for the January examination. • Study of Chemistry 3 in preparation for the May examination. • ISAs (coursework aspect) give us an approximate grade for current performance 	<p>expected after every lesson.</p> <ul style="list-style-type: none"> • Homework based on current topic written examination questions. • Access to “Shared files” on the school website for use with homework and revision. • Revision for examinations in January & May of 2012. <p><u>Resource material available for student use</u> Students are advised of relevant websites and how to gain access to files available on the school website.</p>
HALF TERM 2	<p>Post CHY2 examination study of Chemistry unit 3.</p> <ul style="list-style-type: none"> • Development of the Periodic Table 		
HALF TERM 3	<ul style="list-style-type: none"> • Acid-base reactions • Solubility of solids and gases 		



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HALF TERM 4	<ul style="list-style-type: none">• Hardness of water : causes, problems and remedies• Water treatment• Calculations of energy changes in reactions• Chemical analysis : instruments & techniques• Revision for the final examination in May• Practice at written examinations		
HALF TERM 5			
HALF TERM 6			