

HIGHFIELDS SCHOOL

OVERVIEW - SCHEME OF WORK 2014-2016



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SUBJECT: GCSE CHEMISTRY

EXAMINATION BOARD: OCR

AUTUMN TERM 2014 - YEAR 9	SPRING TERM 2015 - YEAR 9	SUMMER TERM 2015 - YEAR 9
MODULE topics: C1g, C1f, C1a, C1b, C1d, C1e <ul style="list-style-type: none">• Smells• Cooking• Fuels and• Polymers	MODULE topics: C2f, C2e, C2g, C2b, C1h <ul style="list-style-type: none">• Acids and Bases• Fertilisers• Construction materials• Paints and Pigments	MODULE topics: C2c, C2d, C1c, C2a C2h <ul style="list-style-type: none">• Metals and Alloys• Air• The Earth and Salt
PRACTICAL WORK <ul style="list-style-type: none">• Heating Egg and chocolate practical• Heating baking powder practical• Making mayonnaise practical• Making an Ester practical• Dissolving nail varnish practical• Pure water practical• Fractional distillation demonstration• Bromine water test• Nylon rope trick	PRACTICAL WORK <ul style="list-style-type: none">• pH testing• Neutralisation practical• Making a fertiliser practical• Making paint practical	PRACTICAL WORK <ul style="list-style-type: none">• Rusting practical• Electrolysis practical
ASSESSMENT and INTERVENTION <ul style="list-style-type: none">• Smells exam• Food exam	ASSESSMENT and INTERVENTION <ul style="list-style-type: none">• Fuels and Polymers exam• Acids, Bases and Fertilisers exam• Construction Materials and Paints exam <p>Revision Mini-tests set using the revision booklets based on all module topics covered</p>	ASSESSMENT and REVISION and INTERVENTION <ul style="list-style-type: none">• Metals and Alloys exam• Earth and Air exam• Past examination questions• '6 mark' questions• End of Year exam based on all module topics covered

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AUTUMN TERM 2014 - YEAR 10	SPRING TERM 2015 - YEAR 10	SUMMER TERM 2015 - YEAR 10
MODULE C3 – Chemical Economics	MODULE C4 – The Periodic Table	CONTROLLED ASSESSMENT Start after End of year exams Controlled assessment is worth 25% of final GCSE grade.
PRACTICAL WORK <ul style="list-style-type: none">Investigating factors affecting rates of Reaction: temperature, concentration, surface area and catalystsYield and atom economy practical'sExothermic and Endothermic reactionsCombustion of fuels practical	PRACTICAL WORK Group 1 flame tests Group 7 reactions <i>Silver Nitrate and Barium Chloride tests</i>	PRACTICAL WORK Practical based on the Controlled Assessment topic
ASSESSMENT and INTERVENTION <ul style="list-style-type: none">C3a-d – Mid Unit Standard AssessmentC3a-h – End of Unit Standard Assessment	ASSESSMENT and INTERVENTION <ul style="list-style-type: none">C4a-d – Mid Unit Standard AssessmentC4a-h – End of Unit Standard AssessmentRevision Mini-tests set using the revision booklets based on modules C1 C2 C3 and C4 End of Year exam based on modules C1 C2 C3 and C4	ASSESSMENT Marked in accordance to the OCR assessment criteria. Specific skill areas are assessed. Finished and assessed by Autumn half term the following academic year

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AUTUMN TERM 2014 - YEAR 11	SPRING TERM 2015 - YEAR 11	SUMMER TERM 2015 - YEAR 11
MODULE C6 – Chemistry Out There	MODULE C5 – How Much?	ASSESSMENT and REVISION and INTERVENTION
<p>PRACTICAL WORK</p> <ul style="list-style-type: none"> Electrolysis practical's Redox practical based on displacement reactions Rusting practical Fermentation demonstration Hard and soft water practical 	<p>PRACTICAL WORK</p> <ul style="list-style-type: none"> Determine the water of crystallisation Acid-alkali Titration practical's to calculate concentrations of solutions Collecting a gas practical Strong and weak acid practical's Silver Nitrate and Barium Chloride tests 	<ul style="list-style-type: none"> Past examination questions '6 mark' questions 'data response' questions Final examinations (J264) B741 Paper 1 C1-C3 (35%, 75 marks, 75mins) B742 Paper 2 C4-C6 (40%, 85 marks, 90mins)
<p>ASSESSMENT</p> <ul style="list-style-type: none"> C6a-d – Mid Unit Standard Assessment C6a-h – End of Unit Standard Assessment Revision Mini-tests set using the revision booklets based on modules C1 C2 C3 and C4 1ST School Exam based On: Paper 1 C1 C2 C3 Paper 2 C4 and C6 	<p>ASSESSMENT and INTERVENTION</p> <ul style="list-style-type: none"> C5a-d – Mid Unit Standard Assessment C5a-h – End of Unit Standard Assessment Revision Mini-tests set using the revision booklets based on modules C1 - C6 2ND School Exam based on: Paper 1 C1 - C3 Paper 2 C4 - C6 	