

Curriculum area Chemistry AQA AS (7404) and AQA year 1 A-level (7405)

Topics	Assessment	How you can support your child's learning at home E.g. Books, Websites, Family learning through visits
<u>Physical Chemistry</u> <ul style="list-style-type: none"> Atomic structure Amount of substance. Bonding Energetics Chemical equilibria Oxidation and Reduction 	<u>Paper 1</u> Counts for 50% of the AS Chemistry qualification. 80 marks (1 ½ hour exam) incorporating long and short answer questions 20% of the overall assessment will contain mathematical skills At least 15% will assess knowledge, skills and understanding in relation to practical work.	Pupils will be loaned textbooks AQA AS Chemistry Year 1 and Year 2 Purchase the revision guides. Monitor and support. Guidance with organisation of school work, meeting deadlines for homework, preparing for assessments. File dividers will be provided with specification points to aid organisation. Online material available: AQA website: https://www.aqa.org.uk Chemguide: https://www.chemguide.co.uk Chemrevise: https://chemrevise.org Royal Society of Chemistry: https://www.rsc.org Physics and Maths Tutor: https://www.physicsandmathstutor.com Revisely: https://www.revisely.co.uk Seneca Learning: https://www.senecalearning.com
<u>Inorganic Chemistry</u> <ul style="list-style-type: none"> Periodicity Group 2 Group 7 		
<u>Relevant practical Skills</u>		
<u>Physical Chemistry</u> <ul style="list-style-type: none"> Kinetics 	<u>Paper 2</u> Counts for 50% of the AS Chemistry qualification. 80 marks (1 ½ hour exam) incorporating long and short answer questions 20% of the overall assessment will contain mathematical skills At least 15% will assess knowledge, skills and understanding in relation to practical work.	Encourage students to attend help sessions offered at school by staff at lunchtimes, after school and during curriculum enhancement sessions. Following each lesson students are required to spend an equivalent proportion of time consolidating work by reading textbook topics and completing summary questions.
<u>Organic Chemistry</u> <ul style="list-style-type: none"> Introduction to organic Chemistry Alkanes Halogen alkanes Alkenes Alcohols Organic Analysis 		
<u>Relevant practical Skills</u>		

<p><u>Practical Competency</u> A range of apparatus skills and techniques must be demonstrated with increasing independence. Students are assessed against the 5 competencies;</p> <ol style="list-style-type: none"> 1. Follows written procedures. 2. Applies investigative approaches and methods 3. Safely uses a range of equipment and materials 4. Makes and records observations. 5. Researches, references and reports <p>Pupils log experiments in a lab book.</p> <p>Pupils receive a grade of YES/No for practical competency.</p>	<p>Experimental skills assessed in lessons by the teacher across 6 compulsory practical activities:</p> <ol style="list-style-type: none"> 1. Make up a volumetric solution and carry out a simple acid–base titration. 2. Measurement of an enthalpy change. 3. Investigation of how the rate of a reaction changes with temperature. 4. Carry out simple test-tube reactions to identify: cations – Group 2, NH_4^+ anions – Group 7 (halide ions), OH^-, CO_3^{2-}, SO_4^{2-}. 5. Distillation of a product from a reaction. 6. Tests for alcohol, aldehyde, alkene and carboxylic acid. 	<p>At the end of each topic an end of topic assessment will be conducted, students are expected to complete the practice questions in the text book in preparation for the assessment.</p> <p>Completion of past examination papers, available in school and online.</p>
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