

Subject:

Chemistry



HECKMONDWIKE
GRAMMAR SCHOOL

KS5 - Year 13 Curriculum Overview

	Topics being taught	What you will be assessed on	How you can support at home
Autumn Term	3.1 Physical Chemistry- 3.1.9 Rate equations 3.1.10 Equilibrium and Kp 3.1.12 Acids and bases	Reactions of organic functional groups. Mechanisms of reactions including nucleophilic addition and stereochemistry. Calculating Kc and Kp and explaining affect of conditions.	Save my exams overview of rate equations . A-Level chemistry has nice notes on equilibria .
	3.3 Organic Chemistry 3.3.9 Carboxylic acids and their derivatives 3.3.10 Aromatic Chemistry 3.3.11 Amines 3.3.12 Polymers 3.3.13 Amino acids and biochem.	Mock exam – all work covered – AS Units from specification plus optical isomerism, aldehydes and ketones and rate equations	Free science lessons has lots of great revision videos to help! Some nice revision resources for organic chemistry at physics and maths tutor(!) Make sure you complete all the exam questions in your study booklets and check them! Check your specification when you revise!

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Spring Term	3.1 Physical Chemistry- 3.1.8 Thermodynamics 3.1.11 Electrode Potentials 3.2 Inorganic Chemistry 3.2.4 Properties of period 3 elements 3.2.5 Transition Metals 3.2.6 Reactions of aqueous ions 3.3 Organic Chemistry 3.3.13 Amino acids and biochemistry 3.3.14 Organic synthesis 3.3.15 NMR 3.3.16 Chromatography	Organic reactions of aromatics, amines and types of polymerisation, including formation of naturally occurring polymers Reactions of acids and base and associated calculations	Free science lesson playlist on Organic chemistry . Nice explanation of NMR – other videos from this channel are great revision also.
			Mock 2 – All work covered to date. All Organic sections except NMR/chromatography. All physical except electrode potentials. All inorganic except TMs and aqueous ions

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Summer Term	Revision of all A-Level Chemistry content	Paper 1 - Physical, Inorganic and practical skills Paper 2 – Physical, organic and practical skills Paper 3- Any content and practical skills. All papers are 2 hours in length	Practise questions – aqa assessment materials are here .