

Subject	Year	Term	
Chemistry	12	4 & 5	
Торіс			
4.2.1 Alcohols			
Content (Intent)			
Prior Learning (Topic) C7 Orga	anic chemistry KS5 Y12 2.2.2 F	Bonding and structure 4.1.1	
Basic Concepts, 4.2.2 Haloalka	-	J	
Properties of alcohols			
and the relatively low volatility of (ii) classification of alcohols into Reactions of alcohols (b) combustion of alcohols (c) oxidation of alcohols by an oxidising	to form aldehydes and carboxylic acio ols to form ketones tiary alcohols	(see also 2.2.2 l and 4.1.2 c) lcohols H ₂ SO ₄), including: ds; the control of the oxidation product	
 (e) substitution with halide ions in the presence of acid (e.g. NaBr/H₂SO₄) to form haloalkanes. Future Learning (Topic) 4.2.4 Analytical techniques 6.1.3 Carboxylic acids and esters 6.2.3 polyesters and polyamides How will knowledge and skills be taught? How will your understanding be assessed & 			
(Implementation)	recorded (Im		
		-	
Practical work PAG 5.1 Synthesis of a haloalkane PAG 5.3 Oxidation of ethanol Written Recap hydrogen bonding How to classify alcohols Reactions of alcohols; combustion, oxi and further), elimination of H ₂ O, subst halide ion	- 1 x standard Written feed class.)	<u> </u>	
PAG 5.1 Synthesis of a haloalkane PAG 5.3 Oxidation of ethanol <i>Written</i> Recap hydrogen bonding How to classify alcohols Reactions of alcohols; combustion, oxid and further), elimination of H ₂ O, subst	- 1 x standard Written feed class.)	pact) ions in lessons and homework homework (grade given.	
PAG 5.1 Synthesis of a haloalkane PAG 5.3 Oxidation of ethanol <i>Written</i> Recap hydrogen bonding How to classify alcohols Reactions of alcohols; combustion, oxi and further), elimination of H ₂ O, subst halide ion	- 1 x standard Written feed class.) Idation (partial citution with a	pact) ions in lessons and homework homework (grade given.	

Society of Chemistry, ChemGuide.

Take an interest! Ask your children what they have learnt and be curious about their learning.

Helpful further reading/discussion			
Reading	Vocabulary Lists	Careers Links	
The Science of Everyday Life by Marty Jopson Why Chemical Reactions Happen by Keeler and Wothers	Polarity Volatility Primary Secondary Tertiary Combustion Oxidation – partial/further Oxidising agent Aldehydes Ketones haloalkanes	Analytical chemist Chemical engineer Clinical biochemist Forensic scientist Pharmacologist Process chemist	
Chapter 14 of A level chemistry for OCR		Quality control analyst Research scientist Science writer Site chemist Teacher or lecturer Degrees; Chemistry Biochemistry Biomedical science Biological sciences Medicine Research chemist Veterinary medicine	