

Subject	Ye	ar	Term		
Chemistry	1	3	1 and 2		
Торіс					
6.2.5 Organic synthesis					
Content (Intent)					
 Prior Learning (Topic) 1. Practical skills, 2.1, Atoms and reactions, 2.2.2 Bonding and structure (hydrogen bonding), 4.1.1 Basic concepts through to 4.2.3 Practical skills and synthesis, 6.1.1- 6.1.3 Carbonyls, 6.2.5 Organic synthesis Practical skills (a) the techniques and procedures used for the preparation and purification of organic solids involving use of a range of techniques (see also 4.2.3 a) including: (i) organic preparation use of Quickfit apparatus distillation and heating under reflux (ii) purification of an organic solid filtration under reduced pressure recrystallisation measurement of melting points 					
Synthetic routes (b) for an organic molecule containing several functional groups: (i) identification of individual functional groups (ii) prediction of properties and reactions (c) multi-stage synthetic routes for preparing organic compounds. Future Learning (Topic) 5.1.2 How far How will knowledge and skills be taught?					
(Implementation)		recorded (Imp			
Demos How to cot up Quickfit appara	tuc		- 1 x standard homework (Grade given.		
How to set up Quickfit appara How to carry out filtering und		Written feedback. Response expected.) -1 x Paper 2 (Grade given. Verbal feedback			
pressure.		to class and individuals.)			
How to purify an organic solid		PAG 6 and PAG 7			
Practical work PAG 6 and PAG 7					
Written					
Explanation of the stages for p					
an organic solid					
Explanation of the purpose of	each				
purification step					
Drawing Quickfit apparatus for distillation					
and refluxing					
Revision of reactions from mo	dules 4 and 6.				

Overview of all organic reaction	ons				
How can parents help at home?					
Look at the topic specific resources on the VLE Use appropriate websites: MachemGuy, Allery Chemistry, Chemistry World – by Royal 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	5	Careers Links		
Text book: A level chemistry	filtering under reduced		Medicine		
for OCR by Rob Ritchie and	pressure		Veterinary science		
Dave Gent. Chapter 28	minimum volume of hot		Material science		
p.494-501	solvent		Biomedical sciences		
	wash		Environmental science		
The Science of Everyday Life	dry		Toxicologist		
by Marty Jopson	recrystallisation		Pharmacist		
Why Chemical Reactions	melting point		Dentist		
Happen by Keeler and	reflux		Patent law		
Wothers	distillation		Forensic science		
	pear shaped flas	k			
	condenser				