

Subject	Ye	ar	Term	
Chemistry	13	3	1	
Торіс				
6.2.1 Amines & 6.2.3 Polyesters and Polyamides				
Content (Intent)				
Prior Learning (Topic) 1. Pract structure (hydrogen bonding),	4.1.1 Basic con	cepts, 4.2.1 Alc	cohols, 4.1.3 Alkenes, 4.2.2	
Haloalkanes, 4.2.3 Practical sk and esters	illis and synthesi	is, 6.1.1 Aroma	lics, 6.1.3 Carboxylic acids	
 Basicity and preparation of amines (a) the basicity of amines in terms of p dilute acids, e.g. HCl (aq), to form salts (b) the preparation of: (i) aliphatic amines by substitution o (ii) aromatic amines by reduction of 	f haloalkanes with e	xcess ethanolic am	monia and amines	
 Condensation polymers (a) condensation polymerisation to for (i) polyesters (ii) polyamides (b) the acid and base hydrolysis of: (i) the ester groups in polyesters (ii) the amide groups in polyamides (c) prediction from addition and condet (i) the repeat unit from a given monet (ii) the monomer(s) required for a gite (iii) the type of polymerisation. 	ensation polymerisa omer(s)			
Future Learning (Topic) 6.2.2 bond formation, 6.2.5 Organic			-	
How will knowledge and skills (Implementation)	-		understanding be assessed &	
Demos			homework (Grade given.	
Making nylon			ack. Response expected.)	
Practical work		•	vic test (Grade given. Verbal ass and individuals.)	
Reactions of amines				
Written				
Presentations				
Past paper question examples				
Modelled answers with key po	pints/terms			
Evaluation of the basisity of	aminac			

Explanation of the basicity of amines.

How to identify monomers and determine a					
repeat unit.					
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	Careers Links			
Text book: A level chemistry	nitrogen lone pair	Medicine			
for OCR by Rob Ritchie and	base	Veterinary science			
Dave Gent. Chapter 27	proton acceptor	Material science			
p.474-477 and p.483-489	repeat unit	Biomedical sciences			
	monomer	Environmental science			
The Science of Everyday Life	polymer	Toxicologist			
by Marty Jopson	amide	Pharmacist			
Why Chemical Reactions	ester	Dentist			
Happen by Keeler and		Patent law			
Wothers		Forensic science			