



Year 12 Chemistry Teacher 1 Learning Programme 5

The LORIC skill focus for his LP is: COMMUNICATION.		Literacy:
The Moral Virtues focus for this LP are: COURAGE and HUMILITY.		Capital letters must be used at the st
Courage - Acting with bravery and overcoming fears.		of sentences and for the first letter of
lumility - Having a modest view of oneself.		proper nouns
What will I be learning about in this Learning Programme?		 Full stops must be used at the end of
		sentence
How to synthesis organic compounds using various synthetic routes. Where have I seen this learning before? You have learnt about alkanes, alkenes, alcohols and organic reactions in LP3 and 4.		Question marks must be used at the and of a question
		end of a questionApostrophes should only be used for
		possession or omission
		Days of the week and months must
		spelled correctly
		Key words must be spelled correctly
Vhat could I use it for?		
Aulti step synthesis of organic compounds in Yr13.		
12/05/25 - (WK 1)	Key Vocabulary	Homework
by to list and describe the techniques and procedures for use of Quick fit apparatus including for distillation and heating under reflux.	,	PPQ on techniques and procedures
	Quick fit apparatus	
LP5.2, I will know: 19/05/25 - (WK 2)	Key Vocabulary	Homework
now to describe preparation and purification of an organic liquid PAG;		Revision quiz on functional groups
how to describe an organic molecule containing several functional groups and make a prediction of properties and reactions.		
	Synthetic routes	
P5 RLW, I will: 02/06/25 - (WK 1)		
5 (EV.) (W. 1)		
		Revision
eview my learning, recalling and applying key knowledge, and focus on closing any gaps in my knowledge.		
n LP5.3, I will know: 09/05/25 - (WK 2)	Key Vocabulary	Homework
ow to complete the PAG assessment for synthetic routes		Synthetic Routes Task
	Carboxylic Acids	
xtended Task.		
n LP5.4, I will know: 16/06/25 - (WK 1)	Key Vocabulary	Homework
ow to complete my end of year assessment;		Revision
ow to review my end of year assessment.		
1 LP5.5, I will know: 23/06/25 - (WK 2)	Key Vocabulary	Homework
now to describe the experimental evidence for a delocalised, rather than Kekulé, model for benzene in terms of bond lengths,	ney rounding	
nthalpy change of hydrogenation and resistance to reaction;		
how to describe the electrophilic substitution of aromatic compounds.	Benzene	Practice questions on Benzene
	Key Vocabulary	Homework
1 LP5.6, I will know: 30/06/25 - (WK 1)		
now to interpret unfamiliar electrophilic substitution reactions of aromatic compounds, including prediction of mechanisms;		
how to interpret unfamiliar electrophilic substitution reactions of aromatic compounds, including prediction of mechanisms; how to describe the relative ease of electrophilic substitution of phenol compared with benzene, in terms of electron pair donation to		Practice questions on aromatic
how to interpret unfamiliar electrophilic substitution reactions of aromatic compounds, including prediction of mechanisms; how to describe the relative ease of electrophilic substitution of phenol compared with benzene, in terms of electron pair donation to	Aromatic	Practice questions on aromatic compounds
how to interpret unfamiliar electrophilic substitution reactions of aromatic compounds, including prediction of mechanisms; how to describe the relative ease of electrophilic substitution of phenol compared with benzene, in terms of electron pair donation to ne π-system from an oxygen p-orbital in phenol.	Aromatic	
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now to interpret unfamiliar electrophilic substitution reactions of aromatic compounds, including prediction of mechanisms; now to describe the relative ease of electrophilic substitution of phenol compared with benzene, in terms of electron pair donation to the \(\pi \)-system from an oxygen p-orbital in phenol. *** **Tep5.7,1 will know:** **O7/06/25 - {WK 2}	Aromatic Key Vocabulary	
how to interpret unfamiliar electrophilic substitution reactions of aromatic compounds, including prediction of mechanisms; how to describe the relative ease of electrophilic substitution of phenol compared with benzene, in terms of electron pair donation to the π-system from an oxygen p-orbital in phenol. Attended Task. 1 LP5.7, I will know: 07/06/25 - (WK 2) how to describe the mechanism for nucleophilic addition reactions of aldehydes and ketones with NaBH4 and HCN;		compounds
how to interpret unfamiliar electrophilic substitution reactions of aromatic compounds, including prediction of mechanisms; how to describe the relative ease of electrophilic substitution of phenol compared with benzene, in terms of electron pair donation to he π-system from an oxygen p-orbital in phenol. xtended Task. 1 LP5.7, I will know: 07/06/25 - (WK 2) how to describe the mechanism for nucleophilic addition reactions of aldehydes and ketones with NaBH4 and HCN; how to use Tollen's reagent to distinguish between aldehydes and ketones, explained in terms of the oxidation of aldehydes to	Key Vocabulary	Compounds Homework
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FFET Award Challenge for this Learning Progra Make a revision resource for my yr12 learning.