



Year 12 Chemistry Teacher 1 Learning Programme 4

The LORIC skill focus for his LP is: INITIATIVE.		Literacy:
The Moral Virtues focus for this LP are: INTEGRITY and GRATITUDE.		Capital letters must be used at the star
Integrity - Having strong moral principles.		of sentences and for the first letter of
Gratitude - Feeling and expressing thanks.		proper nounsFull stops must be used at the end of a
What will I be learning about in this Learning Programme?		sentence
How to produce new organic substances from substitution and addition reactions. The properties and reactions of alcohols and halogenoa	lkanes. How to	Question marks must be used at the
synthesize a organic liquid. Where have I seen this learning before?		end of a question
		Apostrophes should only be used for
		possession or omissionDays of the week and months must be
Organic functional groups from LP3		spelled correctly
		Key words must be spelled correctly
		, , ,
What could I use it for?		
Yr13 further study of organic reactions and functional groups		
In LP4.1, I will know: 04/03/24 - (WK 1)	Key Vocabulary	Homework
the polarity of alcohols and explain, in terms of hydrogen bonding, the water solubility and the relatively low volatility of alcohols		Alcohols practice questions
compared with alkanes;		
how to explain the oxidation of alcohols by an oxidising agent.	Polarity	
In LP4.2, I will know: 11/03/24 - (WK 2)	Key Vocabulary	Homework
how to describe the hydrolysis of haloalkanes in a substitution reactions;	tcy vocabalary	Halogen alkanes practice questions
how to describe the mechanism of nucleophilic substitution in halogenoalkane reacti <mark>ons.</mark>		Transfer america Presente deservent
	Substitution reaction	
	_	
	Key Vocabulary	Homework Organis techniques practice questions
how to explain the production of halogen radicals by the action of ultraviolet (UV) radiation on CFCs in the upper atmosphere and the resulting catalysed breakdown of the Earth's protective ozone layer;		Organic techniques practice questions
the techniques and procedures for use of Quickfit apparatus including for distillation and heating under reflux.	Radical	
Extended Task.		
In LP4.4, I will know: 25/03/24 - (WK 2)	Key Vocabulary	Homework
how to describe the preparation and purification of an organic liquid PAG;		Organic liquid PAG write up
how to describe an organic molecule containing several functional groups and make a prediction for it's properties and reactions.	Organic synthesis	
	Organic synthesis	
In LP4.5, I will know: 15/04/24 - (WK 1)	Key Vocabulary	Homework
how to describe an organic molecule containing several functional groups two-stage synthetic routes for preparing organic compounds.		Organic synthesis practice questions
	Synthetic routes	
	Synthetic routes	
In IPA 6 I will know.		Homowork
	Synthetic routes Key Vocabulary	Homework Organic synthesis practice questions
In LP4.6, I will know: 22/04/24 - (WK 2) how to describe an organic molecule containing several functional groups two-stage synthetic routes for preparing organic compounds.		Homework Organic synthesis practice questions
	Key Vocabulary	
	Key Vocabulary	
how to describe an organic molecule containing several functional groups two-stage synthetic routes for preparing organic compounds. Extended Task. In LP4.7,1 will know: 29/04/24 - (WK 1)	Key Vocabulary	Organic synthesis practice questions Homework
how to describe an organic molecule containing several functional groups two-stage synthetic routes for preparing organic compounds. Extended Task. In LP4.7, I will know: 19/04/24 - (WK 1) how to use a mass spectrum of an organic compound to identify the molecular ion peak and hence to determine molecular mass;	Sey Vocabulary Synthetic routes	Organic synthesis practice questions
how to describe an organic molecule containing several functional groups two-stage synthetic routes for preparing organic compounds. Extended Task. In LP4.7,1 will know: 29/04/24 - (WK 1)	Synthetic routes Key Vocabulary	Organic synthesis practice questions Homework
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how to describe an organic molecule containing several functional groups two-stage synthetic routes for preparing organic compounds. Extended Task. In LP4.7, I will know: 29/04/24 - (WK 1) how to use a mass spectrum of an organic compound to identify the molecular ion peak and hence to determine molecular mass; how to interpret and predict an infrared spectrum of familiar or unfamiliar substances using supplied data. In LP4.8, I will know: 06/05/24 - (WK 2)	Synthetic routes Sey Vocabulary Mass spectrum	Organic synthesis practice questions Homework Mass Spectrum practice questions Homework
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