



Year 12 Applied Science Teacher 1 Learning Programme 3

he LORIC skill focus for his LP is: RESILIENCE.		Literacy: Capital letters must be used at the start of sentences and for the first letter of proper nouns
The Moral Virtues focus for this LP are: RESPECT and JUSTICE Respect - treat others how you would wish to be treated yourself.		
What will I be learning about in this Learning Programme?		sentence
You are learning about different properties of chemicals and why these different properties are present, as well as the characteristics of waves.		 Question marks must be used at the
		end of a question
		Apostrophes should only be used for
		possession or omission
Where have I seen this learning before? You will have learnt about the Periodic Table in GCSE Chemistry and about waves in GCSE P <mark>hys</mark> ics.		Days of the week and months must be spelled correctly.
		spelled correctlyKey words must be spelled correctly
		key words must be spelled correctly
What could I use it for?		
You will use this knowledge again if you study a BSc (Hons) in Chemistry or do an apprent <mark>iceshi</mark> p as a communica	ations engineer.	
In LP3.1, I will know: 08/01/24 - (WK 2)	Key Vocabulary	Homework
how to describe and explain different types of intermolecular forces;		Exam questions on balancing equations.
how to write and balance symbol equations.	intermals	
	intermolecular	
in LP3.2, I will know: 15/01/24 - (WK 1)	Key Vocabulary	Homework
how to use balanced symbol equations to work out moles, molar masses and molarities;		Exam questions on empirical formula.
how to calculate empirical formula.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	empirical	
n LP3.3, I will know: 22/01/24 - (WK 2)	Key Vocabulary	Homework
how to calculate reaction quantities and yield;		Exam questions on yields and quantities
the organisation of the Periodic Table.		
	yield	
Fiden ded Trail		
Extended Task. In LP3.4, I will know: 29/01/24 - (WK 1)	Vov. Vo sahulanu	Homework
atoms by atomic and ionic radius;	Key Vocabulary	Exam questions on atomic and ionic
trends in electronegativity, ionisation energy, electron affinity, melting and boiling points.		radius.
· · · · · · · · · · · · · · · · · · ·	radius	
In LP3.5, I will know: 05/02/24 - (WK 2)	Key Vocabulary	Homework
the products of reactions of metals with oxygen, water, hydrochloric and sulphuric acid;		Exam questions on reactions of metals.
my strengths and areas for development for my learning so far.		
	products	
In LP3.6, I will know: 12/02/24 - (WK 1)	Vov. Vo coloulous	Hamawark
In LP3.6, I will know: 12/02/24 - (WK 1) metals in order of reactivity and explain the trends;	Key Vocabulary	Homework Exam questions on redox reactions.
how to write half equations for oxidation and reduction reactions and link to the oxida <mark>tive states o</mark> f transition m	etal jons.	Estati questions on redox reactions.
	oxidation	
Extended Task.		
In LP3.7, I will know: 26/02/24 - (WK 2)	Key Vocabulary	Homework
displacement reactions in metals and halogens;		Exam questions on displacement.
o identify oscillations, periods, amplitude, wavelength and frequency using graphical re <mark>presenta</mark> tions of wave fo	ormation.	
	displacement	
Resources to support learning:		
https://www.youtube.com/watch?v=vkdmZb4cqmw		
https://www.youtube.com/watch?v=DfHZwoup_JY		
EEET Award Challangs for this Loarning Programme.		
FFET Award Challenge for this Learning Programme: Summarise your learning about atoms and the periodic table on a poster.		
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