



Year 12 Applied Science SRS Learning Programme 3

The LORIC skill focus for his LP is: RESILIENCE		
		Literacy:
The Moral Virtues focus for this LP are: RESPECT and JUSTICE		 Capital letters must be used at the sta of sentences and for the first letter of
Respect - treat others how you would wish to be treated yourself.		proper nouns
Justice - our College rules are fair and reasonable.		 Full stops must be used at the end of
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
Where have I seen this learning before?		possession or omission
ou will have learnt about the Periodic Table in GCSE Chemistry and about waves in GCSE Physics.		Days of the week and months must I 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 apprenticeship as a communications engineer.		
In LP3.1, I will know: 06/01/25 - (WK 2)	Key Vocabulary	Homework
describe and explain different types of intermolecular forces; write and balance symbol equations.	intermolecular	Exam practice on writing balanced equations.
In LP3.2, I will know: 13/01/25 - (WK 1)	Key Vocabulary	Homework
use balanced symbol equations to work out moles, molar masses and molarities; calculate empirical formula.	empirical	Calculations on empirical formula.
n LP3.3, I will know: 20/01/25 - (WK 2)	Key Vocabulary	Homework
calculate reaction quantities and yield; the organisation of the Periodic Table.	yield	Calculations on reaction quantities and yield.
In LP3.4, I will know: 27/01/25 - (WK 1)	Key Vocabulary	Homework
atoms by atomic and ionic radius; trends in electronegativity, ionisation energy, electron affinity, melting and boiling points.	electronegativity	Exam questions on atoms.
Extended Task.	W. W	
In LP3.5, I will know: the products of reactions of metals with oxygen, water, hydrochloric and sulphuric acid;	Key Vocabulary	Homework Exam questions on neutralisation.
my strengths and areas for development for my learning so far.	neutralisation	Exam questions on neutralisation.
in LP3.6, I will know: 10/02/25 - (WK 1)	Key Vocabulary	Homework
In LP3.6, I will know: 10/02/25 - (WK 1) metals in order of reactivity and explain the trends; how to write half equations for oxidation and reduction reactions and LINK to the oxidative states of transition metal ions.	Key Vocabulary reactivity	Homework Exam practice on reactivity and trends.
metals in order of reactivity and explain the trends; now to write half equations for oxidation and reduction reactions and LINK to the oxidative states of transition metal ions.		
metals in order of reactivity and explain the trends;		
metals in order of reactivity and explain the trends; how to write half equations for oxidation and reduction reactions and LINK to the oxidative states of transition metal ions. LP3 RLW, I will: 24/02/25 - {WK 2}		Exam practice on reactivity and trends.
metals in order of reactivity and explain the trends; how to write half equations for oxidation and reduction reactions and LINK to the oxidative states of transition metal ions. LP3 RLW, I will: 24/02/25 - (WK 2) review my learning, recalling and applying key knowledge, and focus on closing any gaps in my knowledge.	reactivity	Exam practice on reactivity and trends



Resources to support learning:

FFET Award Challenge for this Learning Programme:

https://www.youtube.com/watch?v=vkdmZb4cqmw Knowledge organiser, Synergy.

LP3 Year 12 Science: Complete three independent learning tasks and evaluate how they have helped you.