

Year 12 Applied Science SMR Learning Programme 2

<p>The LORIC skill focus for his LP is: ORGANISATION The Moral Virtues focus for this LP are: COMPASSION and HONESTY Compassion - the quality of feeling pity and concern for the sufferings or misfortunes of others. Honesty - the quality of being truthful.</p>		<p>Literacy:</p> <ul style="list-style-type: none"> • Capital letters must be used at the start of sentences and for the first letter of proper nouns • Full stops must be used at the end of a sentence • Question marks must be used at the end of a question • Apostrophes should only be used for possession or omission • Days of the week and months must be spelled correctly • Key words must be spelled correctly 	
<p>What will I be learning about in this Learning Programme? You are learning how to determine melting point of chemicals using a cooling curve and how to make a primary standard solution.</p>			
<p>Where have I seen this learning before? You will have learnt about heating and cooling curves in GCSE Science.</p>			
<p>What could I use it for? You will use this knowledge again if you study a BSc (Hons) in Material Science.</p>			
In LP2.1, I will know:	21/10/24 - (WK 2)	Key Vocabulary	Homework
<p>how to investigate extraction of plant pigments and compare Rf values to identify pigments; how to evaluate the extraction of plant pigments using ideas about accuracy, precision and errors.</p>		locating agent	Coursework write up- plant pigment TLC.
In LP2.2, I will know:	04/11/24 - (WK 1)	Key Vocabulary	Homework
<p>an introduction and equipment about amino acids and their separation by chromatography; how to organise a method for chromatography of amino acids and assess health and safety issues.</p>		standard operating procedures	Coursework write up- amino acids.
LP2 RLW, I will:	11/11/24 - (WK 2)		
<p>review my learning, recalling and applying key knowledge, and focus on closing any gaps in my knowledge.</p>		review	Coursework write up- amino acids.
In LP2.3, I will know:	18/11/24 - (WK 1)	Key Vocabulary	Homework
<p>how to evaluate the chromatography of amino acids using ideas about accuracy, precision and errors; how to improve assignment C.</p>		temperature	Coursework write up- cooling curves.
<p>Extended Task.</p>			
In LP2.4, I will know:	25/11/24 - (WK 2)	Key Vocabulary	Homework
<p>the difference between temperature and heat and how the temperature is measured using different thermometers; how to write the introduction, equipment, method and safety for the calibration of a thermometer.</p>		calibrate	Coursework write up- cooling curves.
In LP2.5, I will know:	02/12/24 - (WK 1)	Key Vocabulary	Homework
<p>how to calibrate a thermometer using ice and boiling water; to analyse and evaluate the calibration of a thermometer.</p>		stearic acid	Coursework write up- cooling curves.
In LP2.6, I will know:	09/12/24 - (WK 2)	Key Vocabulary	Homework
<p>the equipment, method and safety for the cooling curve of stearic acid; how to plot the cooling curve of stearic acid.</p>		evaluation	Coursework write up- cooling curves.
<p>Extended Task.</p>			
In LP2.7, I will know:	16/12/24 - (WK 1)	Key Vocabulary	Homework
<p>how to analyse and evaluate the cooling curve of stearic acid; the equipment, method and safety for the cooling curve of paraffin wax.</p>		paraffin wax	Coursework write up- cooling curves.
<p>Resources to support learning: https://www.youtube.com/watch?v=hbRYOAbW1Dc Knowledge organiser</p>			
<p>FFET Award Challenge for this Learning Programme: Help out in STEM club to receive FFET awards.</p>			



PRT Task 1



PRT Task 2