



Year 12 Applied Science SMR Learning Programme 3

The LORIC skill focus for his LP is: RESILIENCE		
THE COME SAME FOUND IN THE IST. RESIDENCE		Literacy:
The Moral Virtues focus for this LP are: RESPECT and JUSTICE		Capital letters must be used at the sta
Respect - treat others how you would wish to be treated yourself.		of sentences and for the first letter of
Justice - our College rules are fair and reasonable.		proper nouns • Full stops must be used at the end of
What will I be learning about in this Learning Programme?		sentence
You are learning how to determine melting point of chemicals using a cooling curve and how to make a primary standard solution.		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
You will have learnt about heating and cooling curves in GCSE Science.		Days of the week and months must b 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 Material Science.		
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In LP3.1, I will know: 06/01/25 - (WK 2)	Key Vocabulary	Homework Coursework write up, cooling curves
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.	temperature	Coursework write up- cooling curves.
In LP3.2, I will know: 13/01/25 - (WK 1)	Key Vocabulary	Homework
now to calibrate a thermometer using ice and boiling water;		Coursework write up- cooling curves.
to analyse and evaluate the calibration of a thermometer.	calibrate	
In LP3.3, I will know: 20/01/25 - (WK 2)	Key Vocabulary	Homework
the equipment, method and safety for the cooling curve of stearic acid; now to plot the cooling curve of stearic acid.	stearic acid	Coursework write up- cooling curves.
n LP3.4, I will know: 27/01/25 - (WK 1)	Key Vocabulary	Homework
	Key Vocabulary	Homework Coursework write up- cooling curves.
how to analyse and evaluate the cooling curve of stearic acid; the equipment, method and safety for the cooling curve of paraffin wax.	Key Vocabulary evaluation	
now to analyse and evaluate the cooling curve of stearic acid; the equipment, method and safety for the cooling curve of paraffin wax. Extended Task.	evaluation	Coursework write up- cooling curves.
how to analyse and evaluate the cooling curve of stearic acid; the equipment, method and safety for the cooling curve of paraffin wax. Extended Task. In LP3.5, I will know: 03/02/25 - (WK 2)		Coursework write up- cooling curves. Homework
how to analyse and evaluate the cooling curve of stearic acid; the equipment, method and safety for the cooling curve of paraffin wax. Extended Task. In LP3.5, I will know: how to investigate the cooling curve of paraffin wax;	evaluation	Coursework write up- cooling curves.
how to analyse and evaluate the cooling curve of stearic acid; the equipment, method and safety for the cooling curve of paraffin wax. Extended Task. In LP3.5, I will know: 03/02/25 - (WK 2) how to investigate the cooling curve of paraffin wax; my strengths and areas for development for my learning so far.	evaluation Key Vocabulary	Coursework write up- cooling curves. Homework
how to analyse and evaluate the cooling curve of stearic acid; the equipment, method and safety for the cooling curve of paraffin wax. Extended Task. In LP3.5, I will know: May strengths and areas for development for my learning so far. In LP3.6, I will know: 10/02/25 - (WK 1) how to analyse and evaluate the cooling curve of paraffin wax;	evaluation Key Vocabulary paraffin wax	Coursework write up- cooling curves. Homework Coursework write up- cooling curves.
now to analyse and evaluate the cooling curve of stearic acid; the equipment, method and safety for the cooling curve of paraffin wax. Extended Task. In LP3.5, I will know: In LP3.5, I will know: In LP3.6, I will know:	evaluation Key Vocabulary paraffin wax Key Vocabulary	Coursework write up- cooling curves. Homework Coursework write up- cooling curves. Homework
how to analyse and evaluate the cooling curve of stearic acid; the equipment, method and safety for the cooling curve of paraffin wax. Extended Task. In LP3.5, I will know: O3/02/25 - (WK 2) how to investigate the cooling curve of paraffin wax; my strengths and areas for development for my learning so far. In LP3.6, I will know: 10/02/25 - (WK 1) how to analyse and evaluate the cooling curve of paraffin wax; the introduction, equipment, method and safety for the preparation of a primary standard solution. LP3 RLW, I will: 24/02/25 - (WK 2)	evaluation Key Vocabulary paraffin wax Key Vocabulary	Coursework write up- cooling curves. Homework Coursework write up- cooling curves. Homework
how to analyse and evaluate the cooling curve of stearic acid; the equipment, method and safety for the cooling curve of paraffin wax. Extended Task. In LP3.5, I will know: Now to investigate the cooling curve of paraffin wax; my strengths and areas for development for my learning so far. In LP3.6, I will know: 10/02/25 - (WK 1) Now to analyse and evaluate the cooling curve of paraffin wax; the introduction, equipment, method and safety for the preparation of a primary standard solution. 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.	evaluation Key Vocabulary paraffin wax Key Vocabulary	Coursework write up- cooling curves. Homework Coursework write up- cooling curves. Homework
how to analyse and evaluate the cooling curve of stearic acid; the equipment, method and safety for the cooling curve of paraffin wax. Extended Task. In LP3.5, I will know: Now to investigate the cooling curve of paraffin wax; my strengths and areas for development for my learning so far. In LP3.6, I will know: 10/02/25 - (WK 1) Now to analyse and evaluate the cooling curve of paraffin wax; the introduction, equipment, method and safety for the preparation of a primary standard solution. 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.	evaluation Key Vocabulary paraffin wax Key Vocabulary analysis	Homework Coursework write up- cooling curves. Homework Coursework write up- cooling curves. Homework Coursework write up- cooling curves.
in LP3.6, I will know: In LP3.7, I will know: In LP3	evaluation Key Vocabulary paraffin wax Key Vocabulary analysis Key Vocabulary primary standard	Homework Coursework write up- cooling curves. Homework Coursework write up- cooling curves. Homework Coursework write up- cooling curves.



FFET Award Challenge for this Learning Programme: Help out in STEM club to receive FFET awards.