

Year 11 Combined Science Chemistry

Learning Programme 1

The LORIC skill focus for his LP is: LEADERSHIP The Moral Virtues focus for this LP are: COURAGE and HUMILITY. Courage - Acting with bravery and overcoming fears. I will show courage by answering a question in class even when I'm not 100% sure of the answer. Humility - Having a modest view of oneself. I will show humility by admitting mistakes and asking for help when needed.			Literacy Non-Negotiables: • 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 • Vocabulary to be taught using the Frayer model
What will I be learning about in this Learning Programme? How energy is transferred in a chemical reaction, how different factors affect the rate of a reaction. Where have I seen this learning before? You will have studied chemical reactions at KS3. What could I use it for? Rates and equilibria at KS5.			
In LP1.1, I will know:	01/09/26 - (WK 1)	Key Vocabulary	Homework
how to explain the difference between endothermic and exothermic reactions and draw appropriate reaction profiles		Exothermic	Sparx science homework task
In LP1.2, I will know:	07/09/26 - (WK 2)	Key Vocabulary	Homework
how to complete the calorimetry required practical		Reaction	Sparx science homework task
In LP1.3, I will know:	14/09/26 - (WK 1)	Key Vocabulary	Homework
Calculate bond energies how to calculate the rate of a reaction		Rate	Sparx science homework task
Extended Task.			
In LP1.4, I will know:	21/09/26 - (WK 2)	Key Vocabulary	Homework
how to calculate the rate of a reaction using tangents (H tier only).		Tangent	Sparx science homework task
In LP1.5, I will know:	28/09/26 - (WK 1)	Key Vocabulary	Homework
how rates of a reaction are affected by; surface area, temperature, concentration; how to explain this by linking to collision theory;		Product	Sparx science homework task
In LP1.6, I will know:	05/10/26 - (WK 2)	Key Vocabulary	Homework
how to undertake the two concentration required practical's (volume of gas and turbidity).		Concentration	Sparx science homework task
Extended Task.			
In LP1.7, I will know:	12/10/26 - (WK 1)	Key Vocabulary	Homework
how rates of a reaction are affected by pressure and catalysts; how to explain this by linking to collision theory.		Catalyst	Sparx science homework task
Resources to support learning: Knowledge organiser, Topic Booklet, Oak Academy, Microsoft TEAMS and GCSE Bitesize			
FFET Award Challenge for this Learning Programme: LP1 - Create a poster to show examples of exothermic and endothermic reactions that happen in everyday life			

PRT Task 1

PRT Task 2