



Year 10 Chemistry Combined Learning Programme 5

Learning Programme 5		
The LORIC skill focus for his LP is: COMMUNICATION.		Literacy:
The Moral Virtues focus for this LP are: COURAGE and HUMILITY. Courage - Acting with bravery and overcoming fears.		Capital letters must be used at the sta of sentences and for the first letter of proper nouns
What will I be learning about in this Learning Programme? We are learning how metals react and can be extracted. We are also learning how acids react with different bases and the products they form.		sentence
		Question marks must be used at the
		end of a question
		 Apostrophes should only be used fo
Miles have been this hamile he for 2		 possession or omission Days of the week and months must
Where have I seen this learning before? KS3 - Acids and Alkalis.		Days of the week and months must a spelled correctly
ulso builds on the ionic bonding topic from LP4.		 Key words must be spelled correctly
What could I use it for? Redox reactions and energy changes at KS5.		
reconstructions and energy changes at 103.		
n LP5.1, I will know: 13/05/24 - (WK 1)	Key Vocabulary	Homework
low to explain how metals and acids react with each other and the names of the different products formed;	ncy vocabalaly	Retrieval questions based on LP4
now to formulate ionic equations.		
	Neutralisation	
n LP5.2, I will know: 20/05/24 - (WK 2)	Kou Vocabularu	Homowork
ow to construct half equations that show oxidation and reduction in different species;	Key Vocabulary	PPQ based on metals and acids
now acids and bases react with each other and the variety of products formed;		Frq based on metals and acids
now to write the reaction between acids and bases using ionic formula.	Base	
n LP5.3, I will know: 03/06/24 - (WK 1)	Key Vocabulary	Homework
ow to conduct the practical - Preparation of a pure, dry sample of a soluble salt from an insoluble oxide or carbonate, using a Bunsen		Retrieval questions based on half
urner to heat dilute acid and a water bath or electric heater to evaporate the solution.		equations
	Soluble	
extended Task.		
n LP5.4, I will know: 10/06/24 - (WK 2)	Key Vocabulary	Homework
now to explain the difference between strong and weak acids; now to use the pH scale to describe the difference between strong and weak acids;		PPQ based on the required practical
now to explain the difference between strong and weak acids based on [H+] concentration.	Concentration	
n LP5.5, I will know: 17/06/24 - (WK 1)	Key Vocabulary	Homework
now to explain the process of electrolysis;		Retrieval questions based on pH scale
now electrolysis occurs in molten compounds and in solutions.		and acid concentration
	Electrolysis	
n LP5.6, I will know: 24/06/24 - (WK 2)	Key Vocabulary	Homework
ow electrolysis of aluminium oxide occurs;		PPQ based on electrolysis
now to conduct the required practical - Investigate what happens when aqueous solutions are electrolysed using inert electrodes. This		
hould be an investigation involving developing a hypothesis.	Electrodes	
xtended Task. n LP5.7, I will know: 01/07/24 - (WK 1)	Kay Vasahulany	Hamaurak
now to explain the difference between endothermic and exothermic reactions;	Key Vocabulary	Homework Retrieval questions based on the
now to conduct the calorimetry required practical.		required practical
	Exothermic	
20 (or for fine 1)		
n LP5.8, I will know: ow to write reaction profiles for exothermic and endothermic reactions;	Key Vocabulary	Homework PPQ based on exothermic and
low to write reaction profiles for exotnermic and endothermic reactions; low to calculate exothermic and endothermic reactions using bond enthalpies.		endothermic reactions.
and characteristic and characteristic reactions assing both characteristics.	Endothermic	and a street me reactions.
esources to support learning:		
Resource booklet, Knowledge organiser, BBC GCSE Bitesize, Free GCSE Science videos on YOUTUBE. COGNITO Science		
FET Award Challenge for this Learning Programme:		
P5 Year 10 Science: Create a revision resource on a topic of your choice		