

Year 10 Chemistry

Learning Programme 4

Reading texts that pupils will study during the learning programme

Loric for LP4 is Initiative

The value we are learning about is **Justice and Integrity**:

Justice- Fair behaviour or treatment

Integrity - Being honest and having strong moral principles

What will I be learning about in this Learning Programme?

Students will be learning about electrolysis and energy changes.

Where have I seen this learning before?

Students have previously learnt about chemical reactions and energy changes in Year 7.

What could I use it for?

Students will benefit greatly from this LP if they study Chemistry beyond GCSE. It will also be of great use in careers such as Energy plant operative

Week 1: Electrolysis, Week 3: Products of electrolysis, Week 5: Exothermic reactions

In LP4.1, I will know:	11/03/24 - (WK 1)	PR Focus	Key Vocabulary	Homework
what happens in electrolysis; the products of electrolysis; what happens to ions during electrolysis			Electrolyte, Anode, Cathode	Kerboodle: C6 Homework 1
In LP4.2, I will know:	18/03/24 - (WK 2)	PR Focus	Key Vocabulary	Homework
how water affects the products of electrolysis; why some metals are extracted with carbon.			Aqueous solution, Products, Anode	Kerboodle: C6 Homework 2
In LP4.3, I will know:	08/04/24 - (WK 1)	PR Focus	Key Vocabulary	Homework
how to complete half equations; how to predict the products of electrolysis; how to investigate the electrolysis of a solution. Extended Task			Inert, Solution, Ions	Kerboodle: C6 Homework 3
In LP4.4, I will know:	15/04/24 - (WK 2)	PR Focus	Key Vocabulary	Homework
how energy can be created or destroyed; how to carry out an investigation into energy changes			Exothermic, Endothermic, Decomposition	Kerboodle: C6 Practice 1
In LP4.5, I will know:	22/04/24 - (WK 1)	PR Focus	Key Vocabulary	Homework
the uses of exothermic and endothermic reactions; how to make use of energy from exothermic reactions; how to draw simple reaction profiles.			Activation energy, breaking, Making, Reactants, Products	Kerboodle: C6 Practice 2
In LP4.6, I will know:	29/04/24 - (WK 2)	PR Focus	Key Vocabulary	Homework
how to define activation energy; how to balance between bond breaking and bond making products in reactions. Extended Task			Absorbed, Released, Moles	Kerboodle: C6 Test 1
In LP4.7, I will know:	06/05/24 - (WK 1)	PR Focus	Key Vocabulary	Homework
how energy transfers in chemical reactions; how to interpret data on chemical cells; how to evaluate the use of chemical cells.			Hydrogen, Fuel cell, Ions	Kerboodle: C6 Test 2
In LP4.8, I will know:	13/05/24 - (WK 2)	PR Focus	Key Vocabulary	Homework
how to evaluate the use of hydrogen in fuel cells; how to write the half equations for electrode reactions.			Electrons, Hydroxide, Electrolyte	Kerboodle: C6 Test 3
Resources to support learning:	Kerboodle, CGP Revision Guide, Knowledge Organiser			
FEET Award Challenge for this Learning Programme:	Attend an extra-curricular club, represent the academy at an event, attend an enrichment day, receive a subject praise postcard, attend a day trip, attend a head of year breakfast or afternoon tea, achieve 100 positive points on class charts, receive a letter of commendation from SLT, be invited to a wonderful Wednesday, receive a principals letter or be invited to a principals lunch, attend a residential trip, achieve the Duke of Edinburgh bronze award.			


PRT Task 1


PRT Task 2