

# Year 11 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 atoms, bonding and moles.

**Where have I seen this learning before?**

Students have previously learnt about atoms 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 Chemical engineer

Week 1: Separation techniques, Week 3: Particle theory, Week 5: Neutralisation reactions

In LP4.1, I will know:	11/03/24 - (WK 1)	PR Focus	Key Vocabulary	Homework
how atoms bind to each other; how to perform simple separation techniques.			Element, Group, Compounds	Kerboodle: C1 Checkpoint quiz
In LP4.2, I will know:	18/03/24 - (WK 2)	PR Focus	Key Vocabulary	Homework
the evolution of the periodic table; the different properties of chemical groups.			Groups, Periods, Dalton	Kerboodle: C2 Checkpoint quiz
In LP4.3, I will know:	08/04/24 - (WK 1)	PR Focus	Key Vocabulary	Homework
the limitations of particle theory; the ways in which materials are bonded.			Solid, Liquid, Gas, Covalent	Kerboodle: C3 Checkpoint quiz
Extended Task				
In LP4.4, I will know:	15/04/24 - (WK 2)	PR Focus	Key Vocabulary	Homework
how to calculate the masses of various compounds; how to balance equations given the masses of reactants and products			Mass, Mole, Mr	Kerboodle: C4 Checkpoint quiz
In LP4.5, I will know:	22/04/24 - (WK 1)	PR Focus	Key Vocabulary	Homework
how to deduce an order of reactivity how to prepare a pure, dry salt from a neutralisation reaction.			Metal ore, Acid, Alkali, Soluble	Kerboodle: C5 Checkpoint quiz
In LP4.6, I will know:	29/04/24 - (WK 2)	PR Focus	Key Vocabulary	Homework
how to identify the products of electrolysis; how to complete a half equation.			Electrolyte, Electrons, Solutions, Inert	Kerboodle: C6 Checkpoint quiz
Extended Task				
In LP4.7, I will know:	06/05/24 - (WK 1)	PR Focus	Key Vocabulary	Homework
how to distinguish between an exothermic and endothermic reaction; how to complete a reaction profile.			Exothermic, Endothermic, Activation energy	Kerboodle: C7 Checkpoint quiz
In LP4.8, I will know:	13/05/24 - (WK 2)	PR Focus	Key Vocabulary	Homework
how to calculate the mean rate of a reaction; how to represent alkanes and alkenes.			Saturated, Unsaturated, Temperature	Kerboodle: C8 Checkpoint quiz

**Resources to support learning:**

Kerboodle, CGP Revision Guide, Knowledge Organiser

**FFET 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