

# Science: Chemistry @ WBS Year 9 Roadmap

**Subject Aim:** This is the start of your Science GCSE course. You will be building on the skills and knowledge you covered in Y7 and 8, but will be going into the topics in greater depth.

TTP and Autumn Term	<b>Topic 1 – Core Chemistry</b>
	You will learn about the basics of atomic structure, bonding and the periodic table. P 12-15, 20, 22-26, 28, 29, 31, 32 of the Chemistry revision guide
	<b>Topic 2 – Separation</b>
	You will study the states of matter and how to separate mixtures P16-18, 36, 37, 86, 87, 102 of the Chemistry revision guide.
	<b>Topic 3+4 – Hydrocarbons and atmosphere</b>
	This topic covers, how we separate crude oil and use the parts of it to make useful products. Also, you will cover the composition of the atmosphere and how it has changed from the early years of the Earth's existence. P75-78, 80, 91-93 of the Chemistry revision guide.
Spring Term	<b>Topic 5 - Energetics</b>
	You will learn how the energies in bonds affect reactions and about reversible reactions P61-63, last part of 72 of the Chemistry revision guide
Summer	<b>Topic 6 – Ideas about atoms</b>
	You will learn about the historical development of atomic structure and the periodic table. P 19, 21, 22, of the Chemistry revision guide.

## Assessment

There will be 3 formal Key assessments in Y9. Each will be a test of all of the content you have covered up to that point in time. You will be given the page references of the revision guides that you need to use 2-3 weeks prior to the assessment. The revision forms a key part of your homework. Your setting in Science will be reviewed following each assessment.

Key Assessment 1	11 <sup>th</sup> September 2023
Key Assessment 2	11 <sup>th</sup> December 2023
Key Assessment 3	15 <sup>th</sup> April 2024

## Homework and Revision

Homework is set by your class teacher on Brightspace. You can expect to get 2 homework tasks per topic.

Revision for the assessments is set by the Head of Department several weeks before each assessment. You will have some revision time in class with your core teacher, but revision is a key component of your Homework.

## Enrichment themes

You will look at careers in science throughout the year. You will have the opportunity to engage with Science outside the classroom through STEM club (Science, Technology, Engineering, Maths)

## Where Next?

In year 10 you will continue to develop your knowledge and practical skills in Chemistry. You will study; Acids, Ions, Metals, Electrolysis, Covalent bonding, Nano particles, Rates and Quantitative Chemistry.