

# Science: Chemistry @ WBS Year 10 Roadmap

**Subject Aim:** You are continuing to build on your skills and knowledge and you are using correct terminology in order to describe and explain key ideas.

TTP and Autumn Term	<b>Topic 1 – Ideas about atoms</b>
	You will learn about the historical development of atomic structure and the periodic table. P19, 21 and 22 of the Chemistry revision guide
	<b>Topic 2 – 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.	
	<b>Topic 3 – Ions and metals</b>
You will study what ions are, how they are involved in bonding and their properties. Also, what metals are and their bonding, properties and reactions. P28-30, 23-24, 35, 55-57, 97 (2 <sup>nd</sup> half), 98 of the Chemistry revision guide.	
	<b>Topic 4- Electrolysis</b>
This topic covers, how to separate compounds of very reactive metals. P58-59 of the Chemistry revision guide	
	<b>Topic 5 – Covalent Bonding and Nano particles</b>
You will learn about covalent substances and nano particles, their properties and reactions. P25,31-34, 38-39, 96-97 of the Chemistry revision guide.	
	<b>Topic 6- Quantitative Chemistry</b>
This topic covers, how to work out the amount of a substance you need for a reaction and other chemistry related calculations. P13,41-46, 48-49 of the Chemistry revision guide.	

## Assessment

There will be 3 formal Key Assessments in Y10. 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. Your performance will help to determine which examination route you take at the end of Year 11.

Key Assessment 1	18 <sup>th</sup> September 2023
Key Assessment 2	22 <sup>nd</sup> January 2024
Key Assessment 3	29 <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.

## Where Next?

In year 11 you will continue to develop your knowledge and practical skills in Chemistry. You will study; Reversible Reactions, Using Resources, Lab tests, Further Organic Chemistry, Further quantitative Chemistry, Electrochemical Cells.