

Science (Chemistry) – Your Learning Journey

Year 8

- Your journey will begin with an introducing science unit which will teach you to work scientifically.
- You will study Chemistry by looking at 3 **Big Ideas** **MATTER**, **REACTIONS** and **EARTH**.
- If you follow the **colours** you can see how these build up as you move through Years 7 to 11.
- The Chemistry units that we study in Year 7 are:

The Particle Model

Separating Mixtures

Acids and Alkalis

The Universe

- By the end of Year 7 you will be working scientifically and have a strong foundation for Year 8.

Year 7

- After a reminder on how we work safely in the science rooms we continue to look at building up your Chemistry knowledge and skills.
- As you move through each topic you will gain a greater understanding of each **Big Idea**.
- The Chemistry units that we study in Year 8 are:

Elements

The Periodic Table

Metals and Non-Metals

Earth Structure

- By the end of Year 8 your knowledge, skills and confidence should be growing and you are ready to tackle the more challenging work of Year 9.

Year 9

- In Year 9 you continue to build up your understanding of each **Big Idea**.
- The Chemistry units that we study in Year 9 are:

Types of Reaction

Chemical Energy

Climate

The Earth's Resources

- By the end of Year 9 your knowledge, skills and confidence should be growing and you are ready to tackle the more challenging work of Year 10 GCSE.
- Next year GCSE just continues to build on the **Big Ideas** that you have studied in Years 7, 8 and 9.

Year 10

- GCSE just continues to build on the **Big Ideas** that you have studied in Years 7, 8 and 9
- The Chemistry Units that we study in Year 10 are:

Structure and Bonding

Molecules and Matter

Chemical Calculations

Chemical Changes

Energy Changes

Rates and Equilibrium

Electrolysis

- All the Units that you have studied so far make up Paper 1 of your GCSE

- In Year 11 you continue to build on each **Big Idea**.
- Your Year 11 work prepares you for Paper 2 of your Chemistry.
- The Chemistry Units that we study in Year 11 are:

Chemical Analysis

Crude Oil and Fuels

The Earth's Atmosphere

The Earth's Resources

- At the end of Year 11 you will sit the AQA Combined Science (Trilogy) exams.

Year 11