

- I will develop a curious mind and my excitement for science will be fuelled.
- I will be equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future.

In Year 11...

- I will explore how variables can be manipulated in order to speed up chemical reactions or slow them down.
- I will establish how to maximise the yield of a desired product in reactions that are reversible and relate these to the work of chemical engineers.
- I will learn about the Earth's atmosphere and the effects of human actions that require engineers to develop solutions to reduce human impacts.

In Year 9...

- I will learn how the periodic table has developed over time and use the modern periodic table as a tool to determine the structure and chemical properties of atoms.
- I will experiment with chemical reactions in a systematic way, organising our results logically.
- I will know how some elements and compounds react with each other and how easily they can be 'pulled apart'.
- I will learn about instrumental methods of chemical testing that provides fast and accurate analysis of chemicals.

In Year 7...

- I will study the foundations for understanding the world through the specific discipline of chemistry.
- I will learn about the particulate nature of matter, simple chemical reactions including acids and alkalis
- I will be challenged to describe processes using technical terminology accurately and precisely and I will build up a specialist vocabulary.

In Year 10...

- I will learn the theories of structure and bonding to explain the properties of materials and how new materials are created with desirable properties.
- I will develop chemical analysis skills that allow us to determine the composition and purity of product chemical reactions.
- I will investigate the energy changes in chemical reactions and how they can be used in our everyday lives.

In Year 8...

- I will learn about further chemical reactions and the periodic table, elements, compounds and mixtures and rocks and Earth.
- My specialist vocabulary will be extended and I will be expected to use this vocabulary when describing and evaluating processes
- I will carry out chemical reactions, predicting results and represent our findings using chemical equations.