NEXT

Haberdashers' Abraham Darby
Year 11 Chemistry Learning Journey

This way to Further Education, Training or Employment

Exam Preparation
Build a portfolio of revision material, to help remember Powerful Knowledge and commit key information to long term memory. You will be tested on all the content learned over the course in Year10 and 11 in your GCSE exams.

Exam Preparation

GCSE Exams

Summer Term 2

GCSE Exams

Summer Term 1

Separate Chemistry (2) (Triple Only)
You have already learnt that crude oil is complex mixture of hydrocarbons, but what are they and how do they differ? See how polymers can be made from hydrocarbons and other related compounds resulting in an array of properties. However, the very properties that make polymers useful can also be problematic for the environment.
What are alcohols and their reactions? Learn about some new revolutionary materials that are so small you probably do not know that you have been using them and benefiting from their amazing properties.

Exam Preparation
Revise the Core and Powerful Knowledge and commit key information to long term memory. You will be tested on all content covered so far this year.

Spring Term 2

Fuels
It may be called crude oil but there is nothing simple about this complex mixture formed millions of years ago. Discover how you can apply your knowledge of mixtures, bonding and chemical reactions to making crude oil a valuable resource. However, there are serious environmental consequences associated with burning fossil fuels. Evaluate whether using hydrogen instead could be the answer.

Earth Science
Where did the Earth's atmosphere come from? How did it evolve to sustain life? What is the difference between the 'greenhouse effect' and 'global warming'? Are we irreparably damaging our planet? Is there anything we can do to mitigate the effects on our climate?

Spring Term 1

Rates of Reaction and Energy Changes
Reactions can be fast, such as when methane burns, or very slow, such as when iron rusts. Find out the factors that can be manipulated to control the rate of a chemical reaction. Why do some reactions take in energy from their surroundings causing it to cool while others give out energy causing the temperature of the surroundings to increase?
Find out how chemical bonds are the reason.

Groups in the Periodic Table
Mendeleev's organisation of elements in his Periodic Table into groups based on their chemical properties was no coincidence! See how your knowledge of atomic structur could be used to explain to Mendeleev why elements in groups have predictable physical and chemical propertie

Autumn Term 2

Separate Chemistry (1) Triple Only
Find out about transition metals, alloys and corrosion, why reactions do not have a 100% yield, calculations involving gases and evaluate whether fuel cells could be the future for powering all of our transport.

Extracting Metals & Equilibria
Learn how we obtain metals, how we can make the world's finite resources last longer and help the environment. Find out how one of the most important chemical reactions to ever be discovered exists in a dynamic equilibrium.

Autumn Term 1

NOW

Y11
You will enter Y11 having studied the KS4 Chemistry topics of:
Key Concepts, States of Matter and Mixtures, Chemical Changes, Extracting Metals & Equilibria, Groups in the Periodic Table, Rates of Reaction & Energy Changes.
You will also have acquired an array of skills for Working Scientifically.

THEN

Start here