



NEXT



# Haberdashers' Abraham Darby Year 10 Chemistry Learning Journey

← This way to Year 11



## Exam Preparation

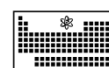
Build a portfolio of revision material, to help remember Powerful Knowledge and commit key information to long term memory. You will be tested on all the content learned over the course of the year ready to build on in Year 11.



## Exam Preparation

### 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.



## Rates of Reaction and Energy Changes Summer Term 2

### 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 structure could be used to explain to Mendeleev why elements in groups have predictable physical and chemical properties.



## Groups in the Periodic Table Summer Term 1

### 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.

### 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 Spring Term 2

### Chemical Changes

Build on your knowledge of acids, bases and indicators by the learning the difference between strong, weak, concentrated and dilute acids. Find out how to predict whether a salt will be soluble or not. Use electrolysis to decompose some ionic compounds and predict the products formed.

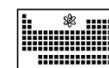
### Exam Preparation

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.

## Chemical Changes Spring Term 1

### Calculations, States of Matter & Mixtures

You will evaluate representations of elements and compounds, carry out calculations involving masses, consolidate your understanding of states of matter and mixtures and apply your knowledge of separating mixtures to some real life scenarios.



## Calculations, States of Matter & Mixtures Autumn Term 2

### Key Concepts

This module contains much of the powerful knowledge you will need to be successful in Chemistry such as using formulae and equations, identifying hazards and risks, understanding atomic structure and applying it to the organisation of the Periodic Table and how chemical bonding occurs.



## Key Concepts Autumn Term 1

NOW

### Y10

You will enter Y10 prepared having studied a comprehensive KS3 Science curriculum consisting of the Chemistry topics: Particles and Solutions, Chemical Reactions, Elements & Compounds, Acids & Alkalis, States of Matter & Mixtures, Earth & Atmosphere, Metals, Periodic Table, Reactions & Materials. Working & Thinking Scientifically underpins everything that we do.



THEN

Start here