



WHS Science Curriculum

Bonding and Structures

Why do some substances exist as gases while others are solid? Why can some substances conduct electricity?

Introducing Chemical Reactions

Why do we balance symbol equations? How can we prove mass is not lost in a chemical reaction?

Types of Chemical Reactions

What is the pH scale? How can we make a pure dry sample of a salt? What is the difference between strong and concentrated acids?

Rates of Reaction

How can we measure the rate of a reaction? Why do some reactions happen faster than others?

Paper 1 and 2 Key Concepts

Can you recall and apply the key ideas? Can you evaluate data and draw valid conclusions?

Periodic Table & Group Trends

How do we arrange our elements? What can we tell about an element from its *group* and *period*.

Energetics

Why do some reactions cause the temperature to increase? Why do some reactions happen spontaneously while others require heating?

Electrolysis

What does electrolysis mean? Why do we use electrolysis? How can you plate a metal with silver?

Earth's Resources

What is crude oil? How do we extract metals? What impact does mining have on the environment?

Exams...

Destination: SUCCESS!

Chemistry KS4 Year 10 and 11