

### What are we learning about?

This topic will look at how different types of reaction produce different substances. This unit will also look at how we extract different metals for use in society.



### Why are we learning about it?

This unit is the first where you will begin to predict outcomes of unknown reactions. By the end of the unit you will be able to predict the products of any reaction in GCSE chemistry.



### What new KNOWLEDGE will I gain?

Reactions of acids with alkalis and bases, oxidation and reduction, half equations, the process of electrolysis to melted and dissolved compounds. We will look specifically at how iron, copper and aluminium is extracted.



## Chemical Changes: Learning Journey

### How does this build on the SKILLS I already have?

You can already use and rearrange equations – this topic will give you the opportunity to practice and build on this by introducing half equations. You will also practice measuring and develop your observation skills.



### What new SKILLS will I develop?

You will be able to perform a required practical; in particular this will test your observation skills and your powers of prediction. You will also develop your problem solving skills when looking at equations.



### How does this build on the KNOWLEDGE I already have?

You already have a good understanding of acids and alkalis. This unit will look at their behaviour when reacted with differing substances. We will look at how electrons are transferred in reactions also!