

Rates of Reaction

- **How can we recognise a chemical reaction?**
- **What is meant by the “rate” of a chemical reaction?**
- **How do these things change the rate of a chemical reaction...**
 - **Increasing/decreasing the temperature?**
 - **Increasing/decreasing the concentration?**
 - **Increasing/decreasing the particle size?**
 - **Adding a catalyst?**

Chemical Structure

- What is an atom?
- What is an element?
- What is a compound?
- How can we tell the difference between a compound and a mixture?
- What is meant by...
 - “Soluble”?
 - “Solvent”?
 - “Solute”?
 - “Saturated”?
- What are the states of matter?
- What happens when a substance reaches melting point or boiling point?
- What do elements in the same group have in common?
- How can we find the name, symbol and atomic number of an element?
- How can we tell the difference between metals and non-metals?
How can we write a chemical formula?
- How can we write down a chemical reaction?



Acids and Bases

- How can we change the concentration of a solution?
- How can we tell the difference between acid, alkaline and neutral solutions?
- What is meant by “pH”?
- Where are non-metal oxides produced?
- What effects do non-metal oxides have on the environment?
- What pHs do food and drinks have?
- What is meant by “neutralisation”?
- What happens when you dilute an acid or an alkali?
- Where do we find neutralisation reactions in everyday life?