Reaction Part 1 Acids and Alkalis Knowledge Organiser

Chemical Reactions

- A chemical reaction is a change in which atoms are rearranged to make new substances
- A reversible reaction is one where the products can react to get back the substances which you started with, most chemical reactions are not reversible
- You can look for signs that a chemical reaction has taken place such as flames, smells, heat change, a loud bang or gentle fizz

Acids and Alkalis

- Acids and alkalis are the chemical opposites of one another
- Both acids and alkalis can be corrosive and irritants

To see whether a substance is an acid or an alkali, we can use an indicator. Indicators show how acidic or how alkaline a solution is by showing its position on the pH scale, one example of this is universal indicator

- If the solution has a pH value of 1–6 it is acidic
- If the solution has a pH value of 8–14 it is alkaline
- If the solution has a pH value of 7 it is known as neutral



