## **Chapter 6: Reaction** 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



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## Metal reactions

- When a metal reacts with an acid it will produce a salt and hydrogen gas, the fizzing that you see is the hydrogen gas being given off
  - metal + acid  $\rightarrow$  salt + hydrogen
  - magnesium + hydrochloric acid  $\rightarrow$  magnesium chloride + hydrogen

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