

Year 7 Types of Reactions Knowledge Organiser

1. Word equations

Keyword	Meaning
Word equations	Show the names of all the chemicals involved in a reaction.
Reactants	The chemical(s) at the start of a chemical reaction
Products	The chemical(s) at the end of a chemical reaction

3. Types of reactions

Thermal decomposition	Breaking down a compound by heating it
Oxidation	A reaction where oxygen is added to a substance
Complete combustion	Burning a substance in plenty of oxygen
Incomplete combustion	Burning where there is a limited supply of oxygen
Hydrocarbon	A compound that only contains carbon and hydrogen
Fuel	A material that is burned to release energy e.g coal
Exothermic	A reaction that transfers energy to the surroundings

2. Conservation of mass

Keyword	Meaning
Conservation of mass	Total mass of products = Total mass of reactants.

<u>Reactants</u>		<u>Products</u>
sodium hydroxide + hydrochloric acid	→	sodium chloride + water
sodium hydroxide + sulfuric acid	→	sodium sulfate + water
sodium hydroxide + nitric acid	→	sodium nitrate + water
magnesium oxide + hydrochloric acid	→	magnesium chloride + water
magnesium oxide + sulfuric acid	→	magnesium sulfate + water
magnesium oxide + nitric acid	→	magnesium nitrate + water

The Fire Triangle

