

Unit Overview – Reactions 2

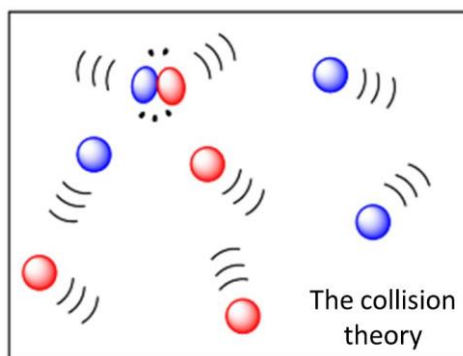
Target grade for tests:

You will learn about:

- Types of reactions
- Chemical energy
- Collision theory

Skills focus:

- Collecting data
- Plotting and interpreting graphs
- Calculating a mean



Key learning points		Key Words
Define reactant and product		
Explain what a reaction is including using particle diagrams		Catalyst Surface area Concentration Collision Combustion Oxidation Neutralisation Displacement Thermal decomposition Reactant Product
Recognise different types of reactions.		
Explain mass changes for physical and chemical change and use particle diagrams to explain chemical processes.		
Describe examples of exothermic and endothermic reactions.		
Explain rates of reaction in terms of collision theory		
Describe what a catalyst is and explain how it works		
Links to other subjects:		
Food and nutrition		
<ul style="list-style-type: none"> • Chemical and physical changes in food • Effect of surface area and temperature on the preservation and cooking of food 		
SMSC		
<ul style="list-style-type: none"> • Describe how industrial chemistry is linked to economics. • Explain why it is important to have a well ventilated atmosphere when you are burning fuels 		
Numeracy		
<ul style="list-style-type: none"> • Drawing and interpreting graphs • Reading a scale and recording measurements • Ratios 		
Literacy		
<ul style="list-style-type: none"> • Construct descriptions and explanations. • Identify and describe evidence. 		