

## Unit Overview – Reactions 2

Target grade for tests: .....

### You will learn about:

- Types of reactions
- Chemical energy

### You will be able to:

- Collect data
- Plan and critique investigation methods
- Interpret graphs



Key learning points						Key Words
Define reactant and product						Exothermic
Explain what a reaction is including using particle diagrams						Endothermic
Describe the types of combustion.						Bond making
Identify applications of combustion reactions and compare the energy of different fuels						Bond breaking
Recognise and explain thermal decomposition reactions and describe their uses.						Catalyst
Explain mass changes for physical and chemical change and use particle diagrams to explain chemical processes.						Enzyme
Apply the Law of Conservation of Mass						Catalytic convertor
Describe acid and base experiments						Combustion
Explain the main gas tests						Reactant
Describe examples of exothermic and endothermic reactions and compare the energy changes taking place during reactions.						Oxidation
Explain reactions in terms of making and breaking bonds						Thermal decomposition
Describe what a catalyst is and explain how it works						Carbonate
<b>Links to other subjects:</b> <b>SMSC</b> <ul style="list-style-type: none"> <li>• Describe how industrial chemistry is linked to economics.</li> </ul> <b>Numeracy</b> <ul style="list-style-type: none"> <li>• Drawing and interpreting graphs</li> <li>• Reading a scale and recording measurements</li> <li>• Ratios</li> </ul> <b>Literacy</b> <ul style="list-style-type: none"> <li>• Construct descriptions and explanations.</li> <li>• Identify and describe evidence.</li> </ul>						Conserved
						Reactant
						Product
Research	Note-making	Group work & accuracy	Memorisation	Precision & accuracy	Independence	Reflection