



# CHEMICAL ENERGY

## Year 8 topic CHEMICAL REACTIONS

- Use particle diagrams to represent the reactants and products of a reaction between elements.
- Explain observations of reactions in which elements combine in terms of a change in arrangement of atoms resulting in new properties.
- Interpret the meaning of the symbols + and  $\rightarrow$  in a word equation.
- Select the word equation that correctly represents the chemical reaction described.
- Recognise that burning of a substance (including metals) involves combination with oxygen.
- Be able to explain and identify **elements**, **compounds**, **molecules** and **mixtures**.

PRIOR  
LEARNING

FOCUS  
ON YOUR  
FUTURE

PRE ASSESSMENT

Consolidate  
prior learning

PEER  
ASSESSMENT

How well can I identify  
elements, molecules and  
compounds in chemical  
word equations?

Exothermic and  
endothermic reactions

Combustion and  
oxidation reactions

KNOWLEDGE  
ASSESSMENT 1

END OF TOPIC  
ASSESSMENT

LATER  
LEARNING

Key Stage 4  
CHEMISTRY

- Quantitative chemistry
- Chemical change
- Energy changes
- Rates of reaction
- Atmosphere & resources

TEACHER ASSESSMENT

How well can I apply  
conservation of mass laws to a  
chemical equation?

Catalysts

Conservation of mass

Thermal decomposition

## Working scientifically

- WS 1.5 Evaluate risks both in practical science and the wider societal context, including perception of risk in relation to data and consequences.

