

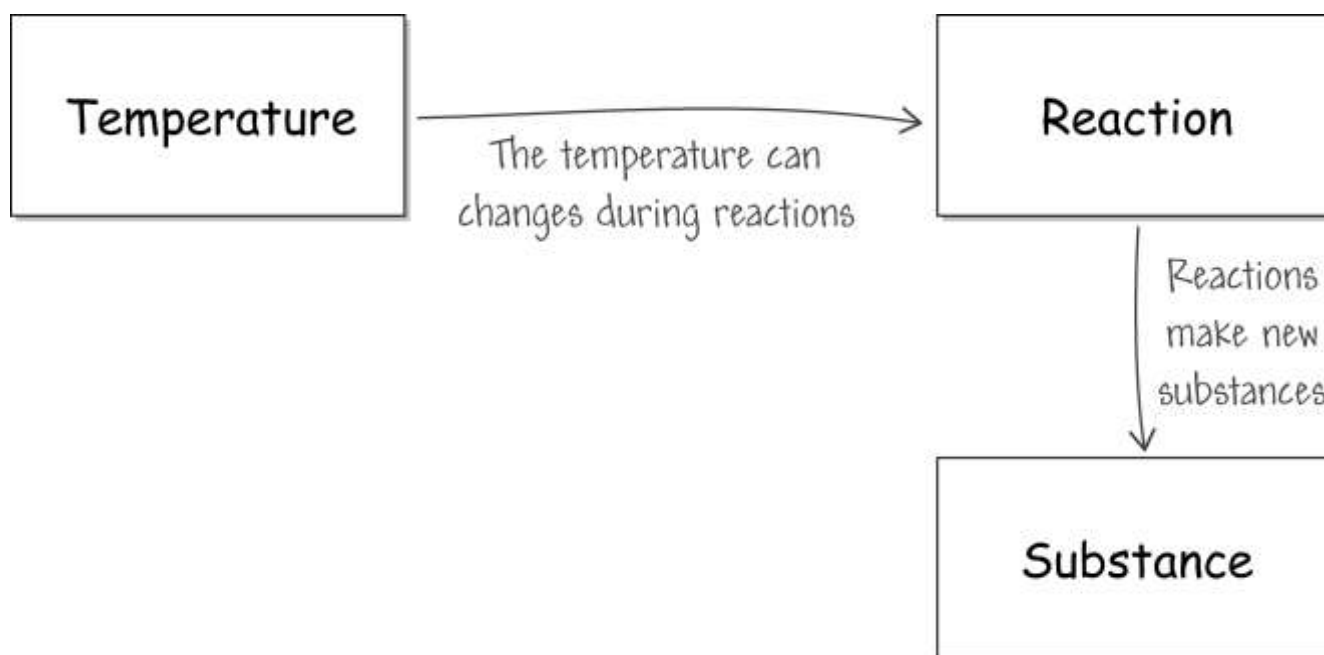
Aims

You are going to construct a visual summary of the information you have learnt about reactions. A visual summary is unique to you and helps you write down information you have learnt, and say how the key topics link together.

Task

You will need to cut out the boxes provided, spread them about, and glue them onto an A3 piece of paper. Make sure you leave plenty of space for writing in-between the boxes.

You should then draw linking lines if you think any headings are related to each other. On the line you should then describe why you have linked the boxes. Two examples have been shown for you.



Reaction	Physical	Chemical
Products	Reactants	Combine
Word equation	Combustion	Fuel
Oxidation	Decomposition	Mass
Atoms	Substance	Heat
Temperature	Endothermic	Exothermic
Uses	Surroundings	Conservation

When you have completed your visual summary, try answering these questions:

- Circle the signs that show a chemical reaction is happening.
 colour change change of state fizzing new substance appears
- Write a word equation to show what happens when magnesium burns in oxygen.
 State what the reactants and the products.

- Some magnesium was placed in acid and the temperature changed from 23° to 27°. Write the word that describes a reaction that releases heat into the surroundings.

- When it is heated, calcium carbonate breaks down to form calcium oxide and carbon dioxide. Why is this a decomposition reaction?

- If 1 g of hydrogen is reacted with 35.5 g of chlorine, how much hydrogen chloride is formed? Follow the steps below to work out the answer.

Step 1:

Write out the word equation.

hydrogen + chlorine → hydrogen chloride

Step 2:

Write the masses of the products into the equation.

hydrogen + chlorine → hydrogen chloride

$$1 \text{ g} + 35.5 \text{ g} =$$

Step 3:

Add the masses of the reactants together to find the mass of the product.

$$1 \text{ g} + 35.5 \text{ g} = \underline{\hspace{10em}}$$

Check your answers. If you are unsure of any, try going back to your visual summary and adding more linking lines. You may need to use the student book to help you find information.