

Science 1.8 AS 90947 Investigate selected chemical reactions

What reaction is that? **Answers**

Success Criteria: complete each level before moving onto the next

- Basic: **match reactants** with **reaction type**
- Proficient: write the **name of the product/products** formed
- Advanced: write the **formula of the product/products** formed

Reaction types to select from are: **displacement, precipitation, combination, thermal decomposition**

1. sodium carbonate solution and copper nitrate solution are mixed together.

Reaction type: **precipitation**

Name of product/s **sodium nitrate** and **copper carbonate**

Formula of product/s **NaNO_3** **CuCO_3**

2. A piece of magnesium metal is added into copper nitrate solution.

Reaction type: **displacement**

Name of product/s **copper** and **magnesium nitrate**

Formula of product/s **Cu** **$\text{Mg}(\text{NO}_3)_2$**

3. copper carbonate powder is heated in a boiling tube over a Bunsen burner.

Reaction type: **thermal decomposition**

Name of product/s **copper oxide** and **carbon dioxide gas**

Formula of product/s **CuO** **CO_2**

4. Iron metal fillings and solid sulfur are heated together.

Reaction type: **combination**

Name of product/s **iron sulfide**

Formula of product/s **FeS**

