

Chemical reactions Vocabulary And Facts Colouring Page

KS3 / Year 8 - Science

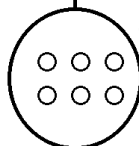
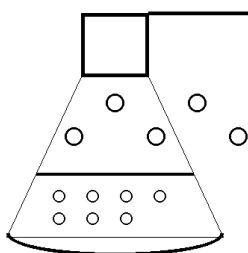
Annotate reactants, products, carbon-dioxide evidence, the gas test and conservation of mass in a sealed system.

REACTION EVIDENCE AND CONSERVATION

Annotate the apparatus, observations and word equation

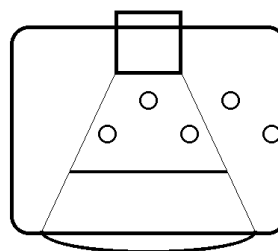
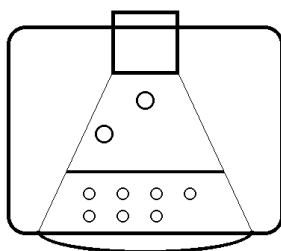
ACID + CARBONATE

acid + carbonate $\rightarrow$ salt + water + carbon dioxide



Effervescence is evidence of gas production

SEALED-SYSTEM MASS



BEFORE: 150.0 g

AFTER: 150.0 g

ANNOTATE THE EVIDENCE

REACTANTS

PRODUCTS

GAS TEST

MASS CONSERVED

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Annotate reactants, products, carbon-dioxide evidence, the gas test and conservation of mass in a sealed system.

Parent & Teacher Guidance

Curriculum focus

Topic: Chemical reactions. Develop accurate observation, subject vocabulary and evidence-based explanation. Mapped scope: DfE national curriculum programme of study for key stage 3.

Before you begin

Review the picture together and ask the learner what they already notice about Chemical reactions. Read the activity aloud, explain unfamiliar vocabulary, and agree which details need special attention.

Solo activity

The learner can complete the colouring independently, then use the finished page to explain three details linked to Chemical reactions. Encourage accurate colour choices where they carry meaning, but allow creative choices elsewhere.

Group activity

Give pairs or small groups different areas to inspect. Ask them to agree on evidence before colouring, compare their findings, and present one curriculum fact to the class. Finish with a whole-group check against the guidance below.

Questions to guide discussion

What evidence can you see? Which feature is most important and why? How does one part connect to another? What new fact about Chemical reactions can you explain using the picture?

Answers and checking

Acid + carbonate $\rightarrow$ salt + water + carbon dioxide. Effervescence indicates gas production; carbon dioxide turns limewater cloudy. In the sealed system the mass remains 150.0 g because matter is conserved.

Learning record and next steps

☐ Completed the colouring

☐ Explained key vocabulary

☐ Completed the activity

☐ Used visible evidence

Evidence noticed / vocabulary used

Next step:
