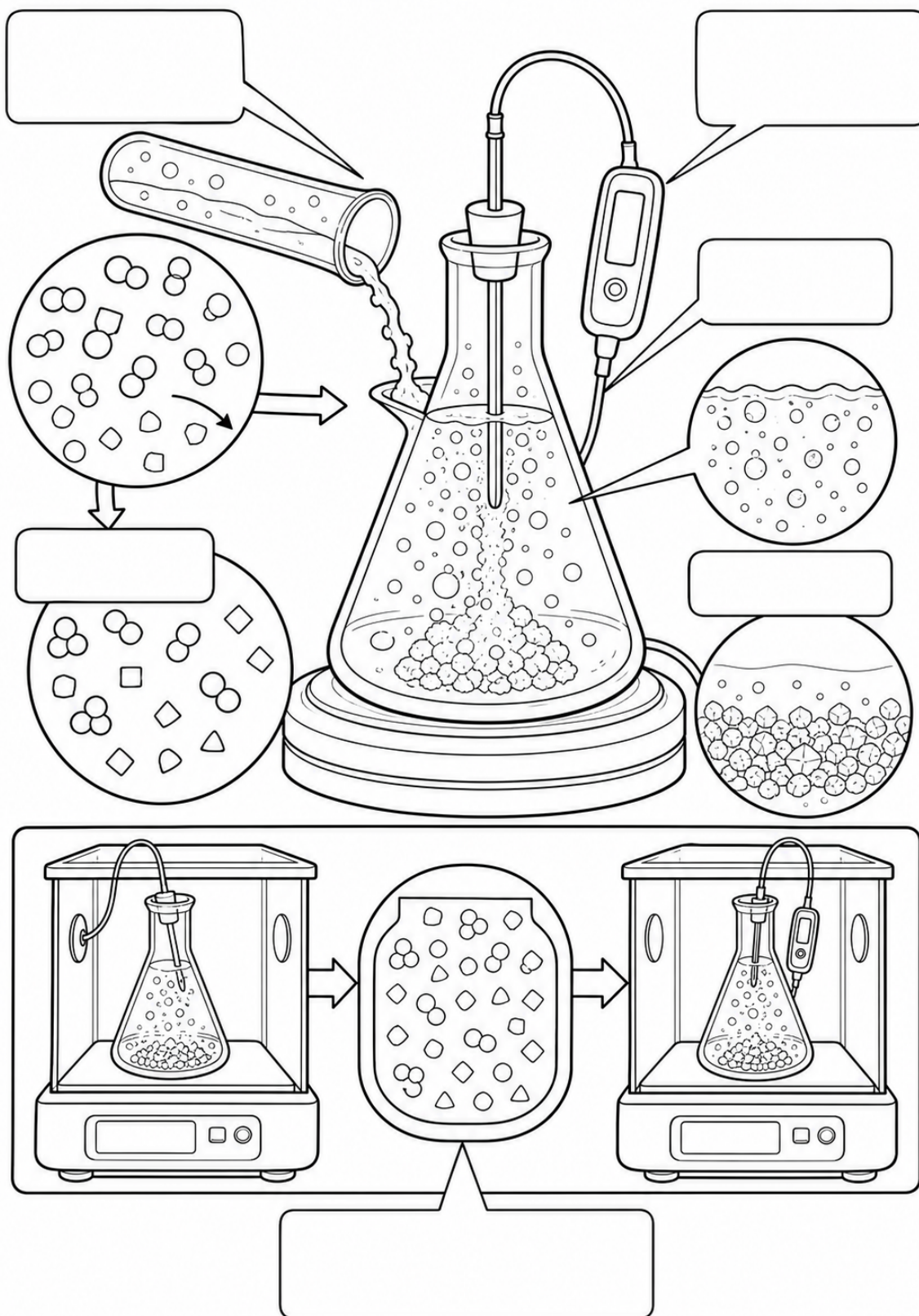


Chemical Reactions: Evidence and Particle Change

KS3 / Year 7 - Science

Annotate signs of reaction, reactants, products, particle rearrangement, closed system, temperature measurement and conservation of mass. Distinguish observation



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Parent & Teacher Guidance

Curriculum focus

Topic: Chemical reactions. Develop accurate observation, subject vocabulary and evidence-based explanation. Mapped scope: KS3 Science: chemical reactions as rearrangements of atoms, conservation of mass, energy changes and evidence including gas, colour and temperature change..

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

Possible observations include gas production, precipitate, temperature change and colour change; none alone identifies every reaction. Particle models should show atoms rearranged into products, not created or destroyed. In a closed system total mass is conserved even when a gas forms.

Learning record and next steps

☐ Completed the colouring

☐ Explained key vocabulary

☐ Completed the activity

☐ Used visible evidence

Evidence noticed / vocabulary used

Next step:
