Workbook/ answer key

10.3 The reactions of metals with acids

- la copper and gold
- b magnesium
- c magnesium, zinc, iron, copper/gold
- 2a Place a lit splint into the gas. If the splint goes out and makes a squeaky pop, the gas is hydrogen.
- b i hydrogen
 - ii zinc sulfate
 - iii hydrochloric acid, hydrogen
 - iv zinc, hydrogen

Textbook/ answer key

4a

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10.3 The reactions of metals with acids

- 1 potassium, sodium, lithium, calcium.
- Products: magnesium chloride and water magnesium + hydrochloric acid → magnesium chloride + water
- 3 Collect the hydrogen in a test tube. Put a lit splint into the test tube. The splint makes a squeaky pop and goes out.
- To ensure that there is the same amount of metal free to react, allowing him to compare the results.

the metal

- ii Amount of dilute hydrochloric acid and the amount of metal added.
- iii To ensure that they are the only variables influencing the results (to make it a fair test).
- d To determine whether the type of acid affects the reaction.
- e Collect the gas produced in a test tube. Place a lit splint inside. If the splint makes a squeaky pop and goes out, there is hydrogen present.