

4 Electroplating and fuel cells — Part 2

— Answers

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Work through these after trying the questions yourself.

4.1 Covering a metal object with a thin layer of another metal; it improves appearance and resists corrosion.

4.2 (a) the cathode \ (b) the anode.

4.3 $2\text{H}_2 + \text{O}_2 \rightarrow 2\text{H}_2\text{O}$.

4.4 Water.

4.5 Advantage: its only product is water, so it does not pollute the air. Disadvantage: hydrogen is hard/dangerous to store, and making it can still use fossil fuels.

4.6 (a) the spoon is the cathode (–); (b) a solution containing silver ions, such as silver nitrate.