

# **METAL EXTRACTION 1**

- 1) Most metals are extracted from ores.
  - a) Why does gold not need to be extracted from ores?

## occurs as an element as it is unreactive

b) Iron is extracted from an ore. What is an ore?

# compound from which a metal can be extracted for profit

- 2) Calcium is extracted from calcium chloride by electrolysis.
  - a) Explain why calcium cannot be extracted by hearing calcium chloride with carbon.

#### calcium is more reactive than carbon

b) Explain why this extraction involves a reduction reaction.

3) One method of extracting zinc involves the reaction of zinc oxide with carbon. Explain, both in terms of oxygen and electrons, why this extraction is involves reduction.

- 4) Lead is extracted by the reduction of lead oxide by heating with carbon: PbO + C → Pb + CO
  - a) Explain why lead can be extracted by heating with carbon.

### lead is less reactive than carbon

b) Explain why this is a redox reaction

lead oxide loses oxygen carbon gains oxygen

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