

29 Which statement about the extraction of aluminium by electrolysis is correct?

- A** Aluminium oxide is dissolved in molten cryolite to increase its melting point.
- B** At the cathode, oxygen ions lose electrons to form oxygen gas.
- C** The carbon in the graphite anode reacts with oxygen gas forming carbon dioxide.
- D** The reaction at the anode is $Al^{3+} + 3e^{-} \rightarrow Al$.

28 Which process is used in the extraction of iron from hematite?

- A** electrolysis
- B** precipitation
- C** reduction
- D** fractional distillation

28 Which equation represents a reaction that occurs in a blast furnace during the extraction of iron from hematite?

- A** $Ca + CO_2 \rightarrow CaO + CO$
- B** $Fe_2O_3 + 3Ca \rightarrow 2Fe + 3CaO$
- C** $Ca(OH)_2 \rightarrow CaO + H_2O$
- D** $Fe_2O_3 + 3CO \rightarrow 2Fe + 3CO_2$