

14 This question is about electricity and chemical reactions.

(b) Bauxite is an ore containing aluminium.

Aluminium is extracted by electrolysis of purified bauxite in molten cryolite using carbon electrodes.

(i) Name the aluminium compound in purified bauxite. **(extended only)**

..... [1]

(ii) State **two** reasons why cryolite is used in this electrolysis. **(extended only)**

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[2]

(iii) The anode is made from carbon.

Explain why the carbon anode has to be replaced regularly. **(extended only)**

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..... [1]