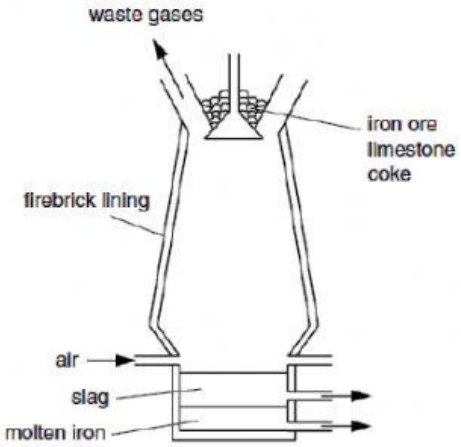
1. The figure below shows the extraction of iron from iron ore using a blast furnace.



(a) (i) State the name of an iron ore. ..... [1]

(ii) Why is limestone added to the blast furnace?

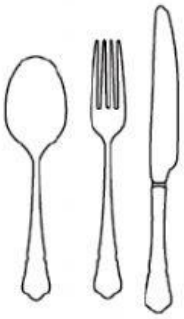
..... [1]

(b) In the blast furnace, iron is extracted from its ore by reduction using carbon.

Explain why sodium cannot be extracted from its ore by reduction using carbon.

..... [2]

2. The cutlery in the figure below is made from stainless steel.



(i) Stainless steel is an alloy.

What is *an alloy*?

.....[1]

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(ii) State **one** other use for stainless steel.

..... [1]

3. Brass is an alloy of two metals.
   Name the two metals in brass.

..... and .....[2]

4. The following is a list of metals.

aluminium copper iron sodium zinc

Use the list to answer the following questions.

(a) Name the metal that is

(i) used for electrical wiring in a house, ... [1]

(ii) extracted from haematite. ..... [1]

(b) Which two metals are used to make brass?

..... and ..... [2]

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