

- 1 Hydrogen and oxygen react to produce water.

Balance the symbol equation below which represents this reaction.

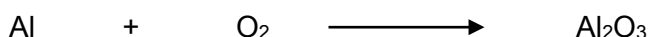
[1 mark]



- 1 (a) (i) Metals can react with oxygen in the air to produce metal oxides. The reaction below represents one of these reactions.

Balance the symbol equation below which represents this reaction.

[1 mark]



- 1 (b) Sodium and water react to produce sodium hydroxide and hydrogen gas. The word and balanced symbol equations below show the reaction.

sodium + water \longrightarrow sodium hydroxide + hydrogen



- 1 (b) (i) Why is a balanced symbol equation better at describing the reaction than a word equation?

[2 marks]

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- 1 (b) (ii) For the above reaction, the total mass of the sodium and water that reacted was 84 grams. The mass of the hydrogen produced was 4 grams.

What is the mass of the sodium hydroxide produced.

[1 mark]

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Mass of sodium hydroxide = grams

Explain your answer.

[2 marks]

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(Total 7 marks)

End

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