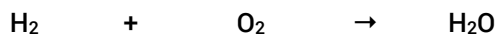


0 1 . 1

Hydrogen and oxygen react to produce water.

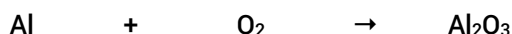
Balance the symbol equation below which represents this reaction. [1 mark]



0 1 . 2

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]



0 2 . 1

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

sodium + water → sodium hydroxide + hydrogen



Why is a balanced symbol equation better at describing the reaction than a word equation? [2 marks]

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.....

0 2 . 2

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. [2 marks]

.....

.....

Mass of sodium hydroxide = ..... grams

0 2 . 3

Explain your answer. [2 marks]

.....

.....

(Total 8 marks)

End