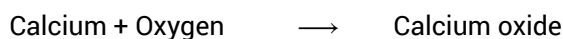


0 1

Calcium reacts with oxygen to produce calcium oxide.

This is the word equation for the reaction:



0 1 . 1

What type of reaction is this?

[1 mark]

Oxidation

0 1 . 2

Write the balanced symbol equation for this reaction.

[2 marks]



1 mark for the correct formulae, 1 mark for the correct balancing

0 2

Lithium reacts with water producing a flammable gas.

0 2 . 1

Complete the word equation for the reaction between lithium and water.

[2 marks]



0 2 . 2

Name two differences between the reaction of potassium and water compared to the reaction of lithium and water?

[2 marks]

Any two from:

Potassium reacts more vigorously / produces gas faster / dissolves faster / melts into a ball / burns with a lilac flame

0 3

Magnesium is a relatively reactive metal, which reacts with hydrochloric acid.

0 3 . 1

What would you observe when this reaction takes place?

[2 marks]

Bubbles / gas produced [1]

Magnesium disappears or dissolves [1]

0 3 . 2

What is the name and chemical formula for the solution formed in this reaction?

[2 marks]

Name Magnesium chloride [1]

Chemical formula MgCl₂ [1]

(Total 11 marks)

End