

Understanding equations

Task 1: Word equations (All)

1 Complete these word equations:

a magnesium + _____ → magnesium oxide

b copper + oxygen → _____

c _____ + sulphur → iron sulphide

d _____ + chlorine → calcium chloride

e magnesium + _____ → magnesium oxide

2 Now try to think of some other chemical reactions that you have learnt about and write word equations for those in the same way.

a _____ + _____ → _____

b _____ + _____ → _____

c _____ + _____ → _____

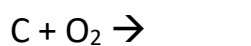
Task 2: Equations and symbols (Some)

The Periodic Table gives us the names of all the elements – but as symbols rather than words.

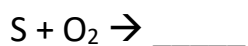
We use these symbols to write equations for chemical reactions.

Complete the word and symbol equations for each of these reactions.

1 carbon + oxygen \rightarrow carbon dioxide



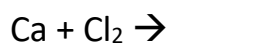
2 sulphur + $\underline{\hspace{2cm}}$ \rightarrow sulphur dioxide



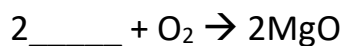
3 $\underline{\hspace{2cm}}$ + $\underline{\hspace{2cm}}$ \rightarrow iron sulphide



4 $\underline{\hspace{2cm}}$ + $\underline{\hspace{2cm}}$ \rightarrow calcium chloride



5 magnesium + $\underline{\hspace{2cm}}$ \rightarrow $\underline{\hspace{2cm}}$



6 What is different about this last equation?

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7 Why do you think it is written like this?

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