

The Periodic Table

Lesson 7 - Making compounds

Science

Chemistry - Key Stage 3

Miss Willett



What have you learnt already?

1. What is the staircase line?
2. What charge does a neutron have?
3. What is a group on the periodic table?



Making a compound

The equation

Copper + oxygen → copper oxide

When you react a metal with oxygen you form a **metal oxide**

Magnesium + oxygen →

Calcium + oxygen →



Making compounds

Complete the following word equations

Lithium + oxygen → _____

Francium + oxygen →

Beryllium + oxygen →

$2\text{K} + \text{O}_2 \rightarrow$ _____

$\text{Be} + \text{O}_2 \rightarrow 2$ _____



Making a compound

SPaG check!

Magnezium oxide is a compound

An compound has different proppertys to its elements

Whenever you reakt a metal in oxygen, you make an oxide

Oxygen is a gass at room tempriture

The reaktants in this reakshun are magnezium + oxygen



Making compounds

Q1) Complete the following sentences:

When you react a metal with oxygen...

You can do this by burning the metal in...

For example, if you heat magnesium in air....

The properties of the products are...

This means a has taken place



Writing a method

Put them in the correct order

Instruction:	Stage:
Allow to cool	
Heat strongly with a Bunsen	
Put in magnesium to the crucible, and find the mass with a balance	
Find the mass of the crucible, lid, and magnesium oxide, with a balance	
Find the mass of the crucible and lid, with a balance	
Lift the lid with tongs to let in more oxygen	
Calculate the change in mass	



Writing a method

Q1) Complete the statements to write a good scientific method

1. Find the mass of the empty crucible and.....
2. Put in a piece of magnesium and.....
3. Heat the
4. Lift the lid occasionally with tongs to...
5. Allow to cool.....
6. Find the mass of.....
7. Calculate the.....



Bringing it all together..

Q1) Write a method for finding the mass of oxygen reacted when copper oxide is made

1. Find the mass of
2. Put in a piece...
3. Heat...
4. Lift.....
5. Allow to cool.....
6. Find the mass ..
7. Calculate...



Bringing it all together..

Q2) Write a word equation for the reaction

Q3) Write a symbol equation for the reaction

Q4) How would you know that a chemical reaction as taken place?

