

## What elements do compounds contain?

### Task

Chemical compounds are made up of different elements. Look at the compounds in the table and decide which elements they are made from.

Use the key to colour in the boxes or write the name of the element.

Compound	element 1	element 2	bonus element!
aluminium oxide			
copper chloride			
magnesium carbonate (MgCO <sub>3</sub> )			
sodium chloride			
sodium hydroxide			
iron sulfide			
copper carbonate			
hydrochloric acid			
magnesium chloride			
copper sulfate			

Element key
aluminium
oxygen
magnesium
copper
carbon
sodium
chlorine
hydrogen
iron
sulfur

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## Teaching notes and answers

The worksheet can be used with lower ability groups. Students use the key to colour in the table and/or write the names of the elements.

Compound	element 1	element 2	bonus element
aluminium oxide	aluminium	oxygen	
copper chloride	copper	chloride	
magnesium carbonate	magnesium	carbon	oxygen
sodium chloride	sodium	chlorine	
sodium hydroxide	sodium	hydrogen	oxygen
iron sulfide	iron	sulfur	
copper carbonate	copper	carbon	oxygen
hydrochloric acid	hydrogen	chlorine	
magnesium chloride	magnesium	chlorine	
copper sulfate	copper	sulfur	oxygen

The element cards can be used in a variety of ways:

- Bingo – students choose five element cards and lay them out in front of them. They turn them over when the symbols are called out.
- quiz answer cards
- matching cards with chemical compounds
- hold up a compound and ask students to hold up the elements that make up the compound
- use as an aid to help students start to make simple chemical equations.

Prepare the cards by printing and laminating so that you have class sets of the cards available.

aluminium

oxygen

magnesium

copper

carbon

sodium

chlorine

hydrogen

iron

sulfur

Al

Na

C

S

Mg

Cl

Cu

Fe

What elements do compounds contain?

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H

H

O

O

O

-CO<sub>3</sub>

-OH

-SO<sub>4</sub>