

## Naming binary compounds

Most compounds are named systematically but there is one non-systematic one in the table. Before you answer the puzzles below fill in the table of compounds using:

aluminium iodide wa	er iron sulfide n	nagnesium oxide	
Name	Elements in th	ne compound	
sodium chloride	sodium and	d chlorine	
	magnesium	and oxygen	
	iron and	d sulfur	
	aluminium	and iodine	
calcium carbide	calcium ar	nd carbon	
lithium fluoride	lithium and	d fluorine	
aluminium nitride	aluminium a	nd nitrogen	
	hydrogen a	hydrogen and oxygen	

#### **Gridlock 1**

Each row, column and 2 x 2 box contains information about the first four compounds listed above. Use your problem solving skills and the answers in the table above to fill in the blank boxes.

compound		made up of the elements	
magnesium oxide			
		aluminium and iodine	
		sodium chloride	
	iron and sulfur		
made up of the elements		comp	oound





# **gridlocks** – can you unlock the grid?

## **Gridlock 2**

Each row, column and 2 x 2 box contains information about each of the last four compounds in the table.

compound		made up of the elements	
	calcium carbide		hydrogen and oxygen
			calcium and carbon
lithium and fluorine			aluminium nitride
made up of t	the elements	comp	oound

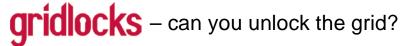
### **Gridlock 3**

You will need to identify which four compounds are in this puzzle.

compound		made up of the elements	
water			sodium and chlorine
			lithium fluoride
iron and sulfur			
made up of t	the elements	comp	oound







## Naming binary compounds – answers

Most compounds are named systematically but there is one non-systematic one in the table. Before you answer the puzzles below fill in the table of compounds using:

aluminium iodide	water	iron sulfide	magnesium oxide
Name		Element	s in the compound
sodium chloride		sodium and chlorine	
magnesium oxide		magnesium and oxygen	
iron sulfide		iron and sulfur	
aluminium iodide		aluminium and iodine	
calcium carbide		calcium and carbon	
lithium fluoride		lithium and fluorine	
aluminium nitride	aluminium nitride		nium and nitrogen
water		hydrogen and oxygen	

#### Puzzle 1 - answers

Each row, column and 2 x 2 box contains information about the first four compounds listed above. Use your problem solving skills and the answers in the table above to fill in the blank boxes.

compound		made up of the elements	
magnesium oxide	aluminium iodide	iron and sulfur	sodium and chlorine
iron sulfide	sodium chloride	aluminium and iodine	magnesium and oxygen
aluminium and iodine	magnesium and oxygen	sodium chloride	iron sulfide
sodium and chlorine	iron and sulfur	magnesium oxide	aluminium iodide
made up of the elements		comp	oound





## gridlocks – can you unlock the grid?

### Puzzle 2 - answers

Each row, column and 2 x 2 box contains information about each of the last four compounds in the table.

compound		made up of the elements	
aluminium nitride	calcium carbide	lithium and fluorine	hydrogen and oxygen
water	lithium fluoride	aluminium and nitrogen	calcium and carbon
calcium and carbon	aluminium and nitrogen	water	lithium fluoride
lithium and fluorine	hydrogen and oxygen	calcium carbide	aluminium nitride
made up of the elements		comp	oound

## Puzzle 3 - answers

You will need to identify which four compounds are in this puzzle.

compound		made up of the elements	
water	iron sulfide	lithium and fluorine	sodium and chlorine
lithium fluoride	sodium chloride	hydrogen and oxygen	iron and sulfur
sodium and chlorine	hydrogen and oxygen	iron sulfide	lithium fluoride
iron and sulfur	lithium and fluorine	sodium chloride	water
made up of the elements			acund

made up of the elements

compound



