

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

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 the elements		compound	

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 the elements		compound	