

gridlocks – can you unlock the grid?

Common compounds

Before you answer the puzzles below fill in the table of formula of compounds using:



Name	Formula
sodium chloride	
calcium carbonate	
carbon dioxide	CO_2
water	
sulfuric acid	
methane	
ammonia	NH_3
copper(II) sulfate	$CuSO_4$

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.

name		formula	
calcium carbonate			
		H_2O	
		sodium chloride	
	CO_2		
formula			name

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Gridlock 2

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

name		formula	
	sulfuric acid		CuSO ₄
			H ₂ SO ₄
CH ₄			ammonia
formula		name	

Gridlock 3

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

name		formula	
sulfuric acid			NaCl
			ammonia
CH ₄			
formula		name	

Common compounds – answers

H ₂ SO ₄	CH ₄	CaCO ₃	NaCl	H ₂ O
Name		Formula		
sodium chloride		NaCl		
calcium carbonate		CaCO ₃		
carbon dioxide		CO ₂		
water		H ₂ O		
sulfuric acid		H ₂ SO ₄		
methane		CH ₄		
ammonia		NH ₃		
copper(II) sulfate		CuSO ₄		

Gridlock 1 – answers

name		formula	
calcium carbonate	water	CO ₂	NaCl
carbon dioxide	sodium chloride	H ₂ O	CaCO ₃
H ₂ O	CaCO ₃	sodium chloride	carbon dioxide
NaCl	CO ₂	calcium carbonate	water
formula		name	

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Gridlock 2 – answers

name		formula	
ammonia	sulfuric acid	CH ₄	CuSO ₄
copper(II) sulfate	methane	NH ₃	H ₂ SO ₄
H ₂ SO ₄	NH ₃	copper(II) sulfate	methane
CH ₄	CuSO ₄	sulfuric acid	ammonia
formula		name	

Gridlock 3 – answers

name		formula	
sulfuric acid	methane	NH ₃	NaCl
ammonia	sodium chloride	H ₂ SO ₄	CH ₄
NaCl	H ₂ SO ₄	methane	ammonia
CH ₄	NH ₃	sodium chloride	sulfuric acid
formula		name	