

gridlocks – can you unlock the grid?

Formulas of compounds

Before you answer the puzzles below, fill in the table of four compounds

Name	Formula
copper carbonate	CuCO_3
	CuO
carbon dioxide	
methane	CH_4

Puzzle 1

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

name		formula	
copper oxide			CuCO_3
	carbon dioxide		CH_4
name		formula	

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Puzzle 2

Each row, column and 2 x 2 box contains the compounds iron sulfide, sodium chloride, magnesium oxide and calcium carbonate.

name		formula	
magnesium oxide			
		FeS	
		sodium chloride	
	CaCO ₃		
formula		name	

Puzzle 3

This time you should be able to list the 4 substances:

name		formula	
	water		CO
			H ₂ O
H ₂ O			
O ₂			hydrogen gas
formula		name	

The 4 substances are:

Formulas of compounds – answers

Before you answer the puzzles below fill in the table of four compounds

Name	Formula
copper carbonate	CuCO ₃
copper oxide	CuO
carbon dioxide	CO ₂
methane	CH ₄

Puzzle 1 – answers

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

name		formula	
copper oxide	methane	CO ₂	CuCO ₃
carbon dioxide	copper carbonate	CH ₄	CuO
copper carbonate	carbon dioxide	CuO	CH ₄
methane	copper oxide	CuCO ₃	CO ₂
name		formula	

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Puzzle 2 – answers

Each row, column and 2 x 2 box contains the compounds iron sulfide, sodium chloride, magnesium oxide and calcium carbonate.

name		formula	
magnesium oxide	iron sulfide	CaCO ₃	NaCl
calcium carbonate	sodium chloride	FeS	MgO
FeS	MgO	sodium chloride	calcium carbonate
NaCl	CaCO ₃	magnesium oxide	iron sulfide
formula		name	

Puzzle 3 – answers

This time you should be able to list the 4 substances:

name		formula	
hydrogen gas	water	O ₂	CO
carbon monoxide	oxygen gas	H ₂	H ₂ O
H ₂ O	H ₂	carbon monoxide	oxygen gas
O ₂	CO	water	hydrogen gas
formula		name	

The 4 substances are: carbon monoxide/CO, water/H₂O, oxygen/O₂, hydrogen gas/H₂