

Everyday chemicals (14–16)

Before you answer the puzzles below fill in the table of everyday chemicals using:

H_2O_2	$\text{C}_2\text{H}_5\text{OH}$	HNO_3	SO_2	CO
name		formula		
sodium hydroxide		NaOH		
silver nitrate		AgNO ₃		
carbon monoxide				
hydrogen peroxide				
sulfur dioxide				
ethanol				
nitric acid				
manganese(IV) oxide		MnO ₂		

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	
silver nitrate			NaOH
	CO		hydrogen peroxide
formula		name	

gridlocks – can you unlock the grid?

Puzzle 2

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

name		formula	
ethanol			SO ₂
			manganese(IV) oxide
HNO ₃			
formula		name	

Puzzle 3

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

name		formula	
nitric acid			
		SO ₂	
		sodium hydroxide	
	CO		
formula		name	

Everyday chemicals (14–16) – answers

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

H_2O_2	$\text{C}_2\text{H}_5\text{OH}$	HNO_3	SO_2	CO
name		formula		
sodium hydroxide		NaOH		
silver nitrate		AgNO ₃		
carbon monoxide		CO		
hydrogen peroxide		H ₂ O ₂		
sulfur dioxide		SO ₂		
ethanol		C ₂ H ₅ OH		
nitric acid		HNO ₃		
manganese(IV) oxide		MnO ₂		

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.

name		formula	
silver nitrate	hydrogen peroxide	CO	NaOH
carbon monoxide	sodium hydroxide	H ₂ O ₂	AgNO ₃
NaOH	CO	silver nitrate	hydrogen peroxide
H ₂ O ₂	AgNO ₃	sodium hydroxide	carbon monoxide
formula		name	

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.

name		formula	
ethanol	nitric acid	MnO ₂	SO ₂
manganese(IV) oxide	sulfur dioxide	C ₂ H ₅ OH	HNO ₃
SO ₂	C ₂ H ₅ OH	nitric acid	manganese(IV) oxide
HNO ₃	MnO ₂	sulfur dioxide	ethanol
formula		name	

Puzzle 3 – answers

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

name		formula	
nitric acid	sulfur dioxide	CO	NaOH
carbon monoxide	sodium hydroxide	SO ₂	HNO ₃
SO ₂	HNO ₃	sodium hydroxide	carbon monoxide
NaOH	CO	nitric acid	sulfur dioxide
formula		name	