

gridlocks – can you unlock the grid?

Acids

Before you answer the puzzles below fill in the table of about acids using:



sodium phosphate

hydrochloric acid

sodium ethanoate

Name	Formula	Salt formed with sodium hydroxide
	HCl	sodium chloride
sulfuric acid		sodium sulfate
nitric acid		sodium nitrate
ethanoic acid	CH_3COOH	
phosphoric acid	H_3PO_4	
carbonic acid	H_2CO_3	sodium carbonate

Gridlock 1

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

name		formula	
sulfuric acid			HCl
	HNO_3		ethanoic acid
formula		name	

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Gridlock 2

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

name		salt formed with sodium hydroxide	
hydrochloric acid			sodium ethanoate
	ethanoic acid		
			hydrochloric acid
		sulfuric acid	
salt formed with sodium hydroxide		name	

Gridlock 3

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

name		formula	
sulfuric acid			
		H ₂ CO ₃	
		hydrochloric acid	
	sodium phosphate		
salt formed with sodium hydroxide		name	

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Acids – answers

Before you answer the puzzles below fill in the table of about acids using:

H_2SO_4 HNO_3 sodium phosphate hydrochloric acid sodium ethanoate

Name	Formula	Salt formed with sodium hydroxide
hydrochloric acid	HCl	sodium chloride
sulfuric acid	H_2SO_4	sodium sulfate
nitric acid	HNO_3	sodium nitrate
ethanoic acid	CH_3COOH	sodium ethanoate
phosphoric acid	H_3PO_4	sodium phosphate
carbonic acid	H_2CO_3	sodium carbonate

Gridlock 1 – answers

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

name		formula	
sulfuric acid	ethanoic acid	HNO_3	HCl
nitric acid	hydrochloric acid	CH_3COOH	H_2SO_4
HCl	HNO_3	sulfuric acid	ethanoic acid
CH_3COOH	H_2SO_4	hydrochloric acid	nitric acid
formula		name	

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Gridlock 2 – answers

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

name		salt formed with sodium hydroxide	
hydrochloric acid	sulfuric acid	sodium nitrate	sodium ethanoate
nitric acid	ethanoic acid	sodium chloride	sodium sulfate
sodium sulfate	sodium nitrate	ethanoic acid	hydrochloric acid
sodium ethanoate	sodium chloride	sulfuric acid	nitric acid
salt formed with sodium hydroxide		name	

Gridlock 3 – answers

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

name		formula	
sulfuric acid	carbonic acid	H_3PO_4	HCl
phosphoric acid	hydrochloric acid	H_2CO_3	H_2SO_4
sodium carbonate	sodium sulfate	hydrochloric acid	phosphoric acid
sodium chloride	sodium phosphate	sulfuric acid	carbonic acid
salt formed with sodium hydroxide		name	