

gridlocks – can you unlock the grid?

Acids and salts

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

sodium nitrate	potassium sulfate	hydrochloric acid	sodium ethanoate
Acid	Salt formed with potassium hydroxide	Salt formed with sodium hydroxide	
	potassium chloride	sodium chloride	
sulfuric acid		sodium sulfate	
nitric acid	potassium nitrate		
ethanoic acid	potassium ethanoate		

Gridlock 1

Each row, column and 2 x 2 box contains either each of the four acids or the salt they form with sodium hydroxide. Use your problem solving skills and the answers in the table above to fill in the blank boxes.

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

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Gridlock 2

Each row, column and 2 x 2 box contains either each of the four acids or the salt they form with potassium hydroxide.

name		salt formed with potassium hydroxide	
sulfuric acid			potassium chloride
			ethanoic acid
potassium nitrate			
salt formed with potassium hydroxide		name	

Gridlock 3

name		salt formed with potassium hydroxide	
sulfuric acid			
		potassium ethanoate	
		hydrochloric acid	
	sodium nitrate		
salt formed with sodium hydroxide		name	