

gridlocks – can you unlock the grid?

Everyday chemicals (11–14)

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

sodium chloride

sucrose

ethanoic acid solution

silicon dioxide

common name	chemical name	common name	chemical name
table salt		battery acid	sulfuric acid
limestone	calcium carbonate	sugar	
vinegar		sand or quartz	
bicarbonate of soda	sodium hydrogen carbonate	natural gas	methane
caustic soda	sodium hydroxide	alcohol	ethanol

Gridlock 1

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

common name		chemical name	
	table salt		sodium hydrogen carbonate
			sodium chloride
calcium carbonate			vinegar
chemical name		common name	

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Gridlock 2

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

common name		chemical name	
sand or quartz			sucrose
			alcohol
methane			
chemical name		common name	

Gridlock 3

You will need to identify which four substances are in this gridlock

common name		chemical name	
battery acid			sodium hydroxide
	sodium chloride		limestone
chemical name		common name	

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Everyday chemicals (11–14) – answers

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

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common name	chemical name	common name	chemical name
table salt	sodium chloride	battery acid	sulfuric acid
limestone	calcium carbonate	sugar	sucrose
vinegar	ethanoic acid solution	sand or quartz	silicon dioxide
bicarbonate of soda	sodium hydrogen carbonate	natural gas	methane
caustic soda	sodium hydroxide	alcohol	ethanol

Gridlock 1 – answers

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

common name		chemical name	
vinegar	table salt	calcium carbonate	sodium hydrogen carbonate
bicarbonate of soda	limestone	ethanoic acid solution	sodium chloride
sodium chloride	ethanoic acid solution	bicarbonate of soda	limestone
calcium carbonate	sodium hydrogen carbonate	table salt	vinegar
chemical name		common name	

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Gridlock 2 – answers

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

common name		chemical name	
sand or quartz	natural gas	ethanol	sucrose
alcohol	sugar	silicon dioxide	methane
sucrose	silicon dioxide	natural gas	alcohol
methane	ethanol	sugar	sand or quartz
chemical name		common name	

Gridlock 3 – answers

You will need to identify which four substances are in this gridlock

common name		chemical name	
battery acid	limestone	sodium chloride	sodium hydroxide
table salt	caustic soda	calcium carbonate	sulfuric acid
sodium hydroxide	sodium chloride	battery acid	limestone
calcium carbonate	sulfuric acid	caustic soda	table salt
chemical name		common name	