

# **Acids**

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

H₂SO₄	HNO <sub>3</sub>	sodium phosphate	hydrochloric acid	sodium ethanoate
Name		Formula		t formed with um hydroxide
		HCI	soc	dium chloride
su	lfuric acid		so	dium sulfate
n	itric acid		sc	odium nitrate
eth	anoic acid	CH₃COOH		
phos	sphoric acid	H <sub>3</sub> PO <sub>4</sub>		
car	bonic acid	H <sub>2</sub> CO <sub>3</sub>	sodi	ium carbonate

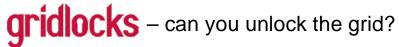
#### **Gridlock 1**

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			HCI
	HNO₃		ethanoic acid
formula		na	me







## **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		na	ime

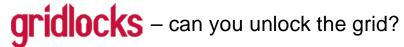
## **Gridlock 3**

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

name		formula	
sulfuric acid			
		H <sub>2</sub> CO <sub>3</sub>	
		hydrochloric acid	
	sodium phosphate		
salt formed with sodium hydroxide		na	me







## Acids - answers

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

H₂SO₄	HNO <sub>3</sub>	sodium phosphate h	nydrochloric acid	sodium ethanoate
Name		Formula		t formed with um hydroxide
hydroch	nloric acid	HCI	so	dium chloride
sulfu	ric acid	H <sub>2</sub> SO <sub>4</sub>	sc	odium sulfate
nitri	c acid	HNO <sub>3</sub>	sc	odium nitrate
ethan	oic acid	СН₃СООН	sod	ium ethanoate
phosph	noric acid	H <sub>3</sub> PO <sub>4</sub>	sodi	um phosphate
carbo	nic acid	H <sub>2</sub> CO <sub>3</sub>	sod	ium 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	HNO₃	HCI
nitric acid	hydrochloric acid	СН₃СООН	H <sub>2</sub> SO <sub>4</sub>
HCI	HNO₃	sulfuric acid	ethanoic acid
СН₃СООН	H <sub>2</sub> SO <sub>4</sub>	hydrochloric acid	nitric acid
formula		name	





# gridlocks – can you unlock the grid?

## 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	H₃PO₄	HCI
phosphoric acid	hydrochloric acid	H <sub>2</sub> CO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>
sodium carbonate	sodium sulfate	hydrochloric acid	phosphoric acid
sodium chloride	sodium phosphate	sulfuric acid	carbonic acid
salt formed with sodium hydroxide		name	



