

# **Oxide types**

Before you answer the puzzles below fill in the table of the four types of oxide using:

H<sub>2</sub>O Al<sub>2</sub>O<sub>3</sub> basic non-metal oxides

name	example	notes
acidic	SO <sub>2</sub>	
	MgO	mostly metal oxides, these react with acids
neutral		react with neither acid nor alkalis
amphoteric		react with acids and alkalis

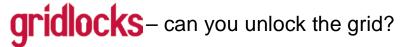
### **Gridlock 1**

Each row, column and 2 x 2 box contains the four types of oxide. Use your problem solving skills and the answers in the table above to fill in the blank boxes.

name		example	
	acidic		Al <sub>2</sub> O <sub>3</sub>
			SO <sub>2</sub>
MgO			neutral
exar	nple	na	me







## **Gridlock 2**

Each row, column and 2 x 2 box contains information about the four types of oxide.

name		notes	
basic			non-metal oxides
			amphoteric
H₂O			
examples		na	me

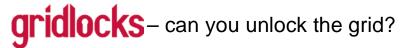
### **Gridlock 3**

Each row, column and 2 x 2 box contains information about the four types of oxide.

name		notes	
basic			non-metal oxides
	H <sub>2</sub> O		amphoteric
exan	nples	na	me







## Oxide types – answers

Before you answer the puzzles below fill in the table of the four types of oxide using:

H₂O	$Al_2O_3$	pasic non-metal ox	ides
name	me example notes		notes
acidic	SO <sub>2</sub>	non-r	metal oxides
basic	MgO	mostly metal o	xides, these react with acids
neutral	H₂O	react with nei	ther acids nor alkalis
amphoteric	Al <sub>2</sub> O <sub>3</sub>	react with	acids and alkalis

### Gridlock 1 - answers

name		example	
neutral	acidic	MgO	Al <sub>2</sub> O <sub>3</sub>
amphoteric	basic	H <sub>2</sub> O	SO <sub>2</sub>
SO <sub>2</sub>	H₂O	amphoteric	basic
MgO	Al <sub>2</sub> O <sub>3</sub>	acidic	neutral
example		na	me





# gridlocks - can you unlock the grid?

## Gridlock 2 - answers

name		notes	
basic	neutral	react with acids and alkalis	non-metal oxides
amphoteric	acidic	mostly metal oxides, these react with acids	react with neither acids nor alkalis
SO <sub>2</sub>	MgO	neutral	amphoteric
H₂O	Al <sub>2</sub> O <sub>3</sub>	acidic	basic
examples		name	

## Gridlock 3 - answers

name		notes	
basic	amphoteric	react with neither acids nor alkalis	non-metal oxides
neutral	acidic	react with acids and alkalis	mostly metal oxides, these react with acids
SO <sub>2</sub>	H <sub>2</sub> O	basic	amphoteric
Al <sub>2</sub> O <sub>3</sub>	MgO	acidic	neutral
examples		na	me



