

Oxide types

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

H_2O

Al_2O_3

basic

non-metal oxides

name	example	notes
acidic	SO_2	
	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_2O_3
			SO_2
MgO			neutral
example		name	

gridlocks – can you unlock the grid?

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
H ₂ O			
examples		name	

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 ₂ O		amphoteric
examples		name	

Oxide types – answers

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

	H ₂ O	Al ₂ O ₃	basic	non-metal oxides
name				
acidic		SO ₂		non-metal oxides
basic		MgO		mostly metal oxides, these react with acids
neutral		H₂O		react with neither acids nor alkalis
amphoteric		Al₂O₃		react with acids and alkalis

Gridlock 1 – answers

name		example	
neutral	acidic	MgO	Al ₂ O ₃
amphoteric	basic	H ₂ O	SO ₂
SO ₂	H ₂ O	amphoteric	basic
MgO	Al ₂ O ₃	acidic	neutral
example		name	

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 ₂	MgO	neutral	amphoteric
H ₂ O	Al ₂ O ₃	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 ₂	H ₂ O	basic	amphoteric
Al ₂ O ₃	MgO	acidic	neutral
examples		name	