

gridlocks – can you unlock the grid?

Elements 3

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

nitrogen Ca Ni Zn Sr P carbon Ba

Element	Symbol	Element	Symbol
magnesium	Mg		C
calcium		oxygen	O
strontium		zinc	
barium		nickel	
	N	iron	Fe
phosphorus		copper	Cu

Gridlock 1

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

name		symbol	
magnesium			Ba
	barium		
			magnesium
		calcium	
symbol		name	

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Gridlock 2

Each row, column and 2 x 2 box contains the p block elements: phosphorus, oxygen, carbon and nitrogen.

name		symbol	
phosphorus			
		O	
		nitrogen	
	C		
symbol		name	

Gridlock 3

Each row, column and 2 x 2 box contains the d block metals: zinc, copper, iron and nickel.

name		symbol	
nickel			Zn
	Fe		copper
symbol		name	

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Elements 3 – answers

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

nitrogen Ca Ni Zn Sr P carbon Ba

Element	Symbol	Element	Symbol
magnesium	Mg	carbon	C
calcium	Ca	oxygen	O
strontium	Sr	zinc	Zn
barium	Ba	nickel	Ni
nitrogen	N	iron	Fe
phosphorus	P	copper	Cu

Puzzle 1 – answers

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

name		symbol	
magnesium	calcium	Sr	Ba
strontium	barium	Mg	Ca
Ca	Sr	barium	magnesium
Ba	Mg	calcium	strontium
symbol		name	

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Puzzle 2 – answers

Each row, column and 2 x 2 box contains the p block elements: phosphorus, oxygen, carbon and nitrogen.

name		symbol	
phosphorus	oxygen	C	N
carbon	nitrogen	O	P
O	P	nitrogen	carbon
N	C	phosphorus	oxygen
symbol		name	

Puzzle 3 – answers

Each row, column and 2 x 2 box contains the d block metals: zinc, copper, iron and nickel.

name		symbol	
nickel	copper	Fe	Zn
iron	zinc	Cu	Ni
Zn	Fe	nickel	copper
Cu	Ni	zinc	iron
symbol		name	