

# gridlocks – can you unlock the grid?

## Elements 4

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

gold Ne Si Hg silver Al Kr xenon

Element	Symbol	Element	Symbol
aluminium			Au
silicon		platinum	Pt
phosphorus	P	neon	
sulfur	S	argon	Ar
mercury		krypton	
	Ag		Xe

## Gridlock 1

Each row, column and 2 x 2 box contains information about the first four elements listed above, these are all in period 3. Use your problem solving skills and the answers in the table above to fill in the blank boxes.

name		symbol	
silicon			Al
	P		sulfur
symbol		name	

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## Gridlock 2

Each row, column and 2 x 2 box contains the transition metals gold, silver, platinum and mercury.

name		symbol	
	mercury		Pt
			Hg
Ag			gold
symbol		name	

## Gridlock 3

Each row, column and 2 x 2 box contains the noble gases neon, argon, krypton and xenon.

name		symbol	
argon			Ne
			xenon
Kr			
symbol		name	

## Elements 4 – answers

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

gold Ne Si Hg silver Al Kr xenon

Element	Symbol	Element	Symbol
aluminium	Al	gold	Au
silicon	Si	platinum	Pt
phosphorus	P	neon	Ne
sulfur	S	argon	Ar
mercury	Hg	krypton	Kr
silver	Ag	xenon	Xe

## Puzzle 1 – answers

Each row, column and 2 x 2 box contains information about the first four elements listed above, these are all in period 3. Use your problem solving skills and the answers in the table above to fill in the blank boxes.

name		symbol	
silicon	sulfur	P	Al
phosphorus	aluminium	S	Si
Al	P	silicon	sulfur
S	Si	aluminium	phosphorus
symbol		name	

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## Puzzle 2 – answers

Each row, column and 2 x 2 box contains the transition metals gold, silver, platinum and mercury.

name		symbol	
gold	mercury	Ag	Pt
platinum	silver	Au	Hg
Hg	Au	platinum	silver
Ag	Pt	mercury	gold
symbol		name	

## Puzzle 3 – answers

Each row, column and 2 x 2 box contains the noble gases neon, argon, krypton and xenon.

name		symbol	
argon	krypton	Xe	Ne
xenon	neon	Ar	Kr
Ne	Ar	krypton	xenon
Kr	Xe	neon	argon
symbol		name	