

# gridlocks – can you unlock the grid?

## The Gases in Air

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

oxygen	21	carbon dioxide	78	CO <sub>2</sub>	argon
Name	Formula		% abundance in air		
nitrogen	N <sub>2</sub>				
	O <sub>2</sub>				
	Ar		0.93		
			0.04		

### Gridlock 1

Each row, column and 2 x 2 box contains information about each of the four main gases in air. Use your problem solving skills and the answers in the table above to fill in the blank boxes.

name		% abundance in air	
oxygen			
		0.04	
		nitrogen	
	0.93		
% abundance in air		name	

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## Gridlock 2

Each row, column and 2 x 2 box contains information about each of the four main gases in air.

name		formula	
nitrogen			CO <sub>2</sub>
	carbon dioxide	N <sub>2</sub>	
	Ar		
		21	
formula		% abundance in air	

## Gridlock 3

Each row, column and 2 x 2 box contains information about each of the four main gases in air.

formula		% abundance in air	
O <sub>2</sub>			78
			CO <sub>2</sub>
0.93			
% abundance in air		formula	