

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 ₂	argon
Name	Formula		% abundance in air		
nitrogen	N ₂				
	O ₂				
	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 ₂
	carbon dioxide	N ₂	
	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 ₂			78
			CO ₂
0.93			
% abundance in air		formula	

The gases in air – answers

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

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

Puzzle 1 – answers

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	carbon dioxide	0.93	78
argon	nitrogen	0.04	21
0.04	21	nitrogen	argon
78	0.93	oxygen	carbon dioxide
% abundance in air		name	

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Puzzle 2 – answers

name		formula	
nitrogen	oxygen	Ar	CO ₂
argon	carbon dioxide	N ₂	O ₂
O ₂	Ar	0.04	78
CO ₂	N ₂	21	0.93
formula		% abundance in air	

Puzzle 3 – answers

formula		% abundance in air	
O ₂	Ar	0.04	78
CO ₂	N ₂	21	0.93
78	21	Ar	CO ₂
0.93	0.04	N ₂	O ₂
% abundance in air		formula	