

gridlocks – can you unlock the grid?

Testing for gases

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

relights

lit splint

turns red then bleaches

carbon dioxide

name of gas	test	result	formula
hydrogen		burns with a pop	H ₂
oxygen	glowing splint		O ₂
	bubble through limewater	turns cloudy	CO ₂
chlorine	damp litmus		Cl ₂

Gridlock 1

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

name of gas		test	
hydrogen			damp litmus
	chlorine		
	turns cloudy		H ₂
		O ₂	
result		formula	

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Gridlock 2

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

name of gas		test	
oxygen			
		damp litmus	
		H ₂	
	turns cloudy		
result		formula	

Gridlock 3

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

name of gas		test	
	hydrogen		damp litmus
			lit splint
relights			CO ₂
result		formula	

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Testing for gases – answers

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

relights

lit splint

turns red then bleaches

carbon dioxide

name of gas	test	result	formula
hydrogen	lit splint	burns with a pop	H ₂
oxygen	glowing splint	relights	O ₂
carbon dioxide	bubble through limewater	turns cloudy	CO ₂
chlorine	damp litmus	turns red then bleaches	Cl ₂

Puzzle 1 – answers

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

name of gas		test	
hydrogen	oxygen	bubble through limewater	damp litmus
carbon dioxide	chlorine	lit splint	glowing splint
relights	turns cloudy	Cl ₂	H ₂
turns red then bleaches	burns with a pop	O ₂	CO ₂
result		formula	

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Puzzle 2 – answers

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

name of gas		test	
oxygen	chlorine	bubble through limewater	lit splint
carbon dioxide	hydrogen	damp litmus	glowing splint
turns red then bleaches	relights	H ₂	CO ₂
burns with a pop	turns cloudy	O ₂	Cl ₂
result		formula	

Puzzle 3 – answers

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

name of gas		test	
carbon dioxide	hydrogen	glowing splint	damp litmus
chlorine	oxygen	bubble through limewater	lit splint
burns with a pop	turns cloudy	Cl ₂	O ₂
relights	turns red then bleaches	H ₂	CO ₂
result		formula	