

gridlocks – can you unlock the grid?

Flame test colours

Before you answer the puzzles below fill in the table of flame test colours using:

pale green

yellow

no colour

potassium

Metal	Flame test colour
sodium	
	lilac (purple)
calcium	brick red
barium	
lithium	crimson
copper	green/blue
magnesium	

Gridlock 1

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

metal		flame test colour	
sodium			pale green
	barium		
		potassium	calcium
flame test colour		metal	

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Gridlock 2

Each row column and 2x2 box contains information about each of the last four metals in the table.

metal		flame test colour	
lithium			
		no colour	
		barium	
	green/blue		
flame test colour		metal	

Gridlock 3

You will need to identify which four metals are in this puzzle

metal		flame test colour	
	sodium		no colour
			yellow
crimson			calcium
flame test colour		metal	