

gridlocks – can you unlock the grid?

Sub atomic particles (14-16)

Before you answer the puzzles below fill in the table of the properties of the sub atomic particles using:

proton 1 very small electron

Name	Mass	Location	Charge
	1	in the nucleus	+1
neutron		in the nucleus	0
		in orbit around the nucleus	-1

Gridlock 1

Each row, column and 2 x 2 box contains information about a proton, neutron and electron. Use your problem solving skills and the answers in the table above to fill in the blank boxes.

name		mass	
proton			gridlocks
	gridlocks		
		gridlocks	proton
gridlocks		neutron	
	mass		name

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Gridlock 2

Each row, column and 2 x 2 box contains information about a proton, neutron and electron.

name		charge	
neutron	gridlocks		
		gridlocks	
gridlocks		proton	
	-1		gridlocks
charge		name	

Gridlock 3

Each row, column and 2 x 2 box contains information about a proton, neutron and electron.

mass		location	
	1		gridlocks
gridlocks			in the nucleus
	in orbit around the nucleus	gridlocks	0
in the nucleus	gridlocks		-1
location		charge	