

# gridlocks – can you unlock the grid?

## Types of bonding

Before you answer the puzzles below fill in the table of the types of bonding using:

ionic

aluminium

metal & metal

water

combination of elements	type of bonding	example
non-metal & non-metal	covalent	
non-metal & metal		sodium chloride
	metallic	

### Gridlock 1

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

combination of elements		type of bonding	
non-metal & metal	gridlocks		
		gridlocks	
gridlocks		non-metal & non-metal	
	metallic		gridlocks
type of bonding			combination of elements

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## Gridlock 2

Each row, column and 2 x 2 box contains information about each type of bonding.

combination of elements		type of bonding	
	non-metal & non-metal		<b>gridlocks</b>
<b>gridlocks</b>			covalent
	metallic	<b>gridlocks</b>	sodium chloride
ionic	<b>gridlocks</b>		aluminium
type of bonding		example	

## Gridlock 3

Each row, column and 2 x 2 box contains information about each type of bonding.

combination of elements		type of bonding	
non-metal & metal		<b>gridlocks</b>	covalent
<b>gridlocks</b>			
			<b>gridlocks</b>
metallic	<b>gridlocks</b>		
type of bonding		combination of elements	