

# gridlocks – can you unlock the grid?

## Organic names - prefixes

Before you answer the puzzles below fill in the table of organic compounds using:

**-CH<sub>2</sub>CH<sub>3</sub>**      **methyl**      **iodo**      **hydroxy**      **nitro**      **-CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>**

side chain or group	prefix	side chain or group	prefix
-CH <sub>3</sub>		-Br	bromo
	ethyl	-I	
	propyl	-OH	
-C <sub>6</sub> H <sub>5</sub>	phenyl	-NH <sub>2</sub>	amino
-F	fluoro	-CN	cyano
-Cl	chloro	-NO <sub>2</sub>	

### Gridlock 1

Each row, column and 2 x 2 box contains information about the prefixes: methyl, ethyl, propyl and phenyl. Use your problem solving skills and the answers in the table above to fill in the blank boxes.

side chain or group		prefix	
-CH <sub>2</sub> CH <sub>3</sub>			
		phenyl	
		-CH <sub>3</sub>	
	propyl		
prefix		side chain or group	

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## Gridlock 2

Each row column and 2x2 box contains information about each of the halides

side chain or group		prefix	
	-F		iodo
			fluoro
chloro			-Br
prefix		side chain or group	

## Gridlock 3

Each row column and 2x2 box contains information about the groups: -NO<sub>2</sub>, -OH, -NH<sub>2</sub> and -CN.

side chain or group		prefix	
-NH <sub>2</sub>			hydroxy
			-NO <sub>2</sub>
cyano			
prefix		side chain or group	