

gridlocks – can you unlock the grid?

Organic names - functional groups

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

amine ROH one propylamide RCOOH acyl chloride

Type of compound	Formula	Suffix	Example
aldehyde	RHO	al	propanal
alcohol		ol	ethanol
ketone	RCOR'		propanone
	RNH ₂	amine	propylamine
amide	RCONH ₂	amide	
carboxylic acid		oic acid	propanoic acid
nitrile	RCN	nitrile	propanenitrile
	RCOCl	oyl chloride	propanoyl chloride

Gridlock 1

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

type of compound		formula	
alcohol			RHO
	RCOR'		amine
	formula	suffix	

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Gridlock 2

Each row, column and 2 x 2 box contains information about each of the types of compound amide, nitrile, acyl chloride and carboxylic acid.

type of compound		formula	
amide			RCOCl
	acyl chloride		
			propylamide
		propanoic acid	
suffix		example	

Gridlock 3

Each row, column and 2 x 2 box contains information types of compound: alcohol, aldehyde, ketone and carboxylic acid.

type of compound		formula	
alcohol			
		RCOOH	
		propanal	
	one		
suffix		example	