



Name: ()

Chem!stry class:

Date: / /

Naming Aldehydes and Ketones - Macroconcept: Systems

• Study the structural formulae and names of the aldehydes and ketones shown below:

H O H-C-C H H	H Br O H-C-C-C H H H	H H H O M O H H H H H H H H H H H H	
Ethanal	2-bromopropanal	3-methylbutanal	
H O H	H O H H H 	O H C C H H C C H H H H	
Propanone	Pentan-2-one	Cyclopentanone	

• Derive a *system* for naming aldehydes and ketones. Apply the *system* that you have constructed to successfully name the 12 aldehydes and ketones shown on page 2.

System for naming aldehydes:							
• System	for naming k						

• For Class Discussion: In what different ways does a naming *system* for organic compounds aid Chemists in their work? In which other areas of science are *systems* for naming objects or phenomena of value? How could science possibly evolve in the absence of conventional naming *systems*?

•Apply the system that you have constructed to successfully name the 12 aldehydes and ketones shown below:

O H—C H	H H H H O H-C-C-C-C-C H H H H H	H H H O H O H C H H H H H H C H H H C H H H H
a)	b)	c)
H CI O I I I I I I I I I I I I I I I I I I	H H O O H-C-C H	H H H O H-C-C=C-C H H
d)	e)	f)
H O H H		H H H H H H H H H H H H H H H H H H H
g)	h)	i)
H H H H C O Br H I I I I I H C C C C C C C H I I I I H Br C H H H H	O H	H O H O H O C C O H H H H H H H H H H H
j)	k)	1)

• Scan the QR code given below to view the answers to this assignment.



http://www.chemist.sg/organic_chem/enrichment/name_aldehydes_ketones_ans.pdf