

# Chem!stry

Name: ..... ( )

Class: .....

Date: ..... / ..... / .....

## Naming Aldehydes and Ketones – Macroconcept: Systems

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

<p><i>Ethanal</i></p>	<p><i>2-bromopropanal</i></p>	<p><i>3-methylbutanal</i></p>
<p><i>Propanone</i></p>	<p><i>Pentan-2-one</i></p>	<p><i>Cyclopentanone</i></p>

- 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 ketones:**

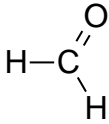
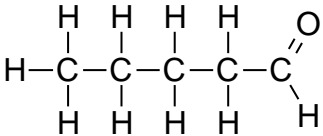
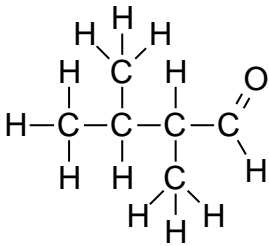
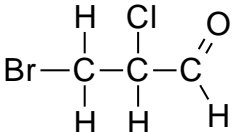
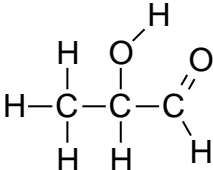
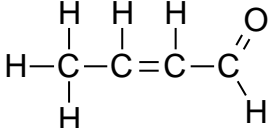
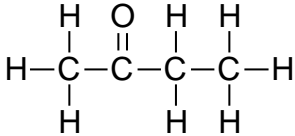
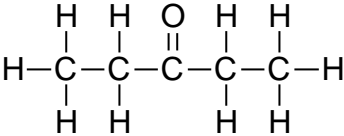
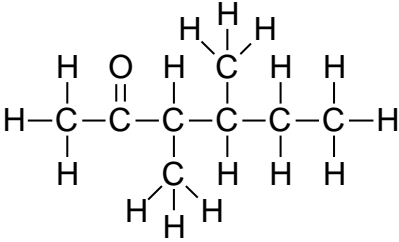
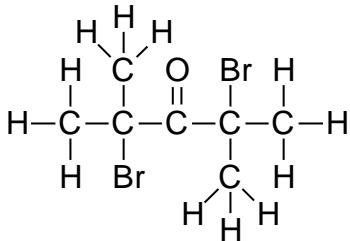
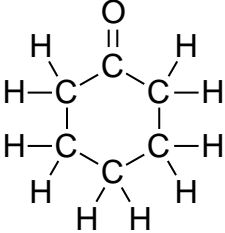
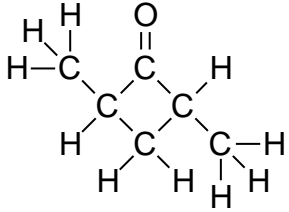
.....

.....

.....

- **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:

 <p>a) .....</p>	 <p>b) .....</p>	 <p>c) .....</p>
 <p>d) .....</p>	 <p>e) .....</p>	 <p>f) .....</p>
 <p>g) .....</p>	 <p>h) .....</p>	 <p>i) .....</p>
 <p>j) .....</p>	 <p>k) .....</p>	 <p>l) .....</p>

- 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](http://www.chemist.sg/organic_chem/enrichment/name_aldehydes_ketones_ans.pdf)