

Chem!stry

Name: ()

Class:

Date: / /

Naming Alkenes and Halogenoalkanes – Macroconcept: Systems

- Study the structures and names of the alkenes and halogenoalkanes shown below and then determine the rules for naming these types of compounds:

<p style="text-align: center;"><i>Ethene</i></p>	<p style="text-align: center;"><i>But-1-ene</i></p>	<p style="text-align: center;"><i>2-methylpent-2-ene</i></p>
<p style="text-align: center;"><i>2-bromopropane</i></p>	<p style="text-align: center;"><i>1,2-dichloroethane</i></p>	<p style="text-align: center;"><i>2,2-dibromo-3-chloropentane</i></p>

- Rules for naming alkenes:

.....

.....

.....

- Rules for naming halogenoalkanes:

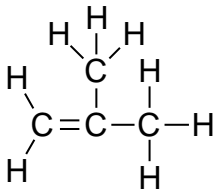
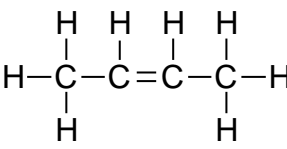
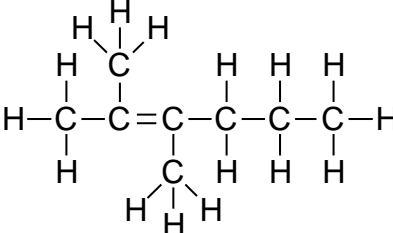
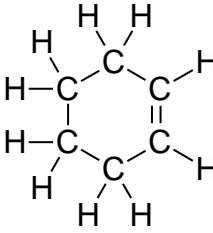
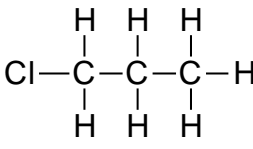
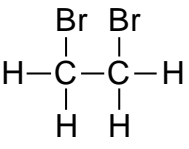
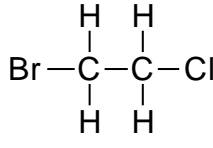
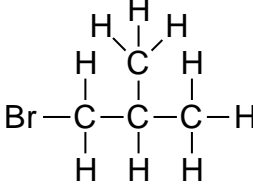
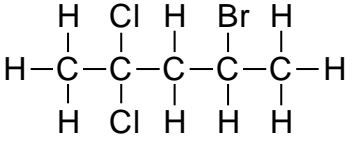
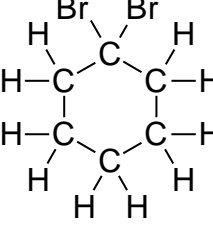
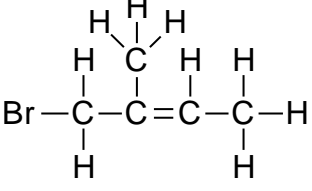
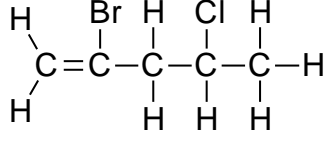
.....

.....

.....

- **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*?

• Now apply the rules that you have constructed to name the following alkenes and halogenoalkanes:

 <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/worksheets/nomenclature/name_alkenes_haloalkanes_ans.pdf