



Unit: Chemical Bonding Answer Key

"Covalent Bonding" - WS #3

Directions: Please answer each question using your notes from today's class. ☺

1. What is the difference between a molecular formula, structural formula and an electron dot formula? Give an example of each.

A molecular formula gives the chemical make-up of one molecule. It does not show atom-to-atom connectivity. Example: C_2H_6

A structural formula uses lines instead of dots to show shared pairs of electrons.

Example: H-H

An electron dot formula uses dots instead of lines to show shared pairs of electrons.

Example: H:H

2. What is the difference between single, double, and triple covalent bonds? How many shared electrons are in each?

The difference between the types of bonds is: a single bond is two shared electrons, a double is four shared electrons, and a triple is six shared electrons.

3. Draw the electron dot and structural formulas for the following molecules.

Substance	Rough copy (work!)	Electron dot	Structural
a) Cl_2		<i>Note: The electron dot structures have dots in between each atom instead of lines.</i>	$:\ddot{Cl}—\ddot{Cl}:$
b) H_2S			$\begin{array}{c} \ddot{S} \\ \\ H \end{array}$
c) BrI			$\begin{array}{c} \ddot{I} \\ \\ Br \end{array}$

Answer Chemical Bonding Ch 13

Mark Steyvers

Answer Chemical Bonding Ch 13:

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