



## 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

**Philip C. Keller, Raymond Chang, Jill L.  
Keller**

## Answer Chemical Bonding Ch 13:

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*A Level Chemistry MCQ (Multiple Choice Questions)* Arshad Iqbal, 2019-06-18

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Leo J. Malone,Theodore O. Dolter,2011-12-27 The 9th edition of Malone's Basic Concepts of Chemistry provides many new and advanced features that continue to address general chemistry topics with an emphasis on outcomes assessment New and advanced features include an objectives grid at the end of each chapter which ties the objectives to examples within the sections assessment exercises at the end each section and relevant chapter problems at the end of each chapter Every concept in the text is clearly illustrated with one or more step by step examples Making it Real essays have been updated to present timely and engaging real world applications emphasizing the relevance of the material they are learning This edition continues the end of chapter Student Workshop activities to cater to the many different

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