

## Covalent Bonding Study Guide

Use the book and notes to answer these questions. You will need to check your answers on Edmodo before you turn this in.

- How many valence electrons are in the following:
  - Carbon 4
  - Silicon 4
  - Chlorine 7
  - Nitrogen 5
- What is the name given to the pairs of valence electrons that do not participate in bonding?  
*Lone or unpaired*
- What is the name given to the pairs of valence electrons that do participate in bonding?  
*Shared pair*
- In a covalent bond, electrons are shared between atoms.
- Which of the following is a covalent molecule (circle one)?
  - LiCl
  - BaO
  - NO<sub>2</sub>
  - MgBr<sub>2</sub>

## Writing Formulas for Covalent Compounds

- Write the formula for the following covalent compounds:
  - Sulfur tribromide *SBr<sub>3</sub>*
  - Dinitrogen tetrachloride *N<sub>2</sub>Cl<sub>4</sub>*
  - Dihydrogen monoxide *H<sub>2</sub>O*
  - Phosphorus Trihydride *PH<sub>3</sub>*
  - Tetracarbon octahydride *C<sub>4</sub>H<sub>8</sub>*

## Nomenclature for Covalent Compounds

- Name the following covalent compounds:
  - N<sub>4</sub>O<sub>6</sub> *tetranitrogen hexoxide*
  - SO<sub>3</sub> *sulfur trioxide*
  - SeF<sub>4</sub> *selenium tetrafluoride*
  - PCl<sub>5</sub> *phosphorous pentachloride*
  - XeI<sub>4</sub> *xenon tetraiodide*

Prefix	Meaning
Mono-	1
Di-	2
Tri-	3
Tetra-	4
Penta-	5
Hexa-	6
Hepta-	7
Octa-	8
Nona-	9
Deca-	10

# Covalent Bonding Study Guide Answer Key

**Daniel C. Pantaleo**



## **Covalent Bonding Study Guide Answer Key:**

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