# <u>Unit 4: Ch 8 – Nomenclature: Metallic & Molecular Compounds</u>

	OMPOUNDS:			
> DEFI	<u>NITION</u> –			
C	<u>"SEA OF ELECTRONS"</u> –			
> PRO	PERTIES OF METALS:			
C	)	Flow of currents or		
(		Can be		
C	)	Can be	into wire form.	
C	)	Held by		_•
NOMENCLA	TURE: MOLECULAR COMPOL	JNDS:		
> MOL	ECULAR FORMULAS:			
C		<b>&gt; TWO</b> (or more)		that are
		bonded.		
	■ Ex)	Ex)	Ex)	-
C	Shows the	(actual) number of	within th	e
		·		
	<ul><li>Subscripts are</li></ul>	reduced.		
	• Ex)			
DIATOMIC I	MOLECULES:			
> <u>DEFI</u>	NITION –			

**▶** <u>DEFINITION</u> –

### **NAMING PREFIX SYSTEM:**

# of Atoms	Prefix
1	
2	
3	
4	
5	

# of Atoms	Prefix
6	
7	
8	
9	
10	

### **NAMEING RULES**:

> 1. Name	<i>non-metal</i> element b	oy its	name.
o Ex)	_=		
<b>&gt;</b> 2	<i>non-metal</i> pattern:	+	_+
o Ex)	_=		
•	atoms <del>-&gt;</del>	prefix	
•	NAME:		
> 3	non-metal requires a	<i>ONLY</i> if	than one atom.
o NOTE:	non-metal	gets prefix, even if only	atom.
■ Ex)	=		
■ Ex)	=		
> 4 or	at <i>END</i> of	is	
non-metal begins wi	th a		
o Ex)	=		_
o Ex)			_

## **PROPERTIES OF MOLECULAR (COVALENT) COMPOUNDS:**

>	1	
>	2	
	2	

### **PUTTING IT TOGETHER:**

>	IONIC	COMPOUNDS:
	0	<b>+</b>
	0	AND
	0	of valence electrons
	0	Bonds
>		CULAR (COVALENT) COMPOUNDS:
	0	+
	0	system and
	0	of valence electrons
	0	Bonds
<u>PRACT</u>	ICE EXA	MPLES:
Ex #1)	BF <sub>3</sub> = _	
Ex #2)	N <sub>2</sub> Br <sub>4</sub>	=
Ex #3)	SO <sub>7</sub> =	

Ex #4) Phosphorus Pentachloride = \_\_\_\_\_

Ex #5) Carbon Triiodide = \_\_\_\_\_

Ex #6) Dibromine Hexoxide = \_\_\_\_\_