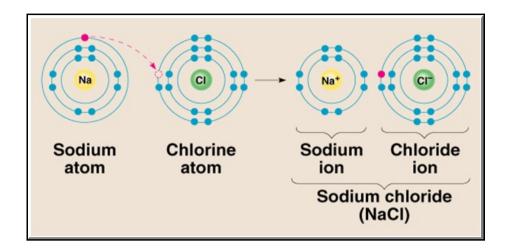


Ionic Bonding results from the "transfer" of electrons from a metal to a nonmetal.



RULES FOR NAMING- IONIC COMPOUNDS :

1. Common names of Ionic compounds

- (i) Sodium Chloride (NaCl)
- (ii) Calcium Carbonate (CaCO³)
- (iii) Sodium Hydroxide (NaOH)

2. Rules For Naming Binary Ionic Compounds

- i) Name the cation (+) by writing the full name of the metal
- ii) Name the anion (-) by shortening the name of the atom and add the ide ending

Examples:

LiBr	Lithium Bromide	
AlCl ₃	Aluminum Chloride	
Rb_2S	Rubidium sulfide	
Mg_3N_2	Magnesium Nitride	

Note: Do Not use prefixes - they are for molecular compounds (two non-metals. Ionic compounds are writing as empirical formulas (lowest ratio)

PART A: MULTIPLE CHOICE

- 1. A chemical bond formed by exchange of electrons is called
 - (A) an ionic bond.
 - (B) a magnetic bond.
 - (C) a hydrate bond.
 - (D) a covalent bond.
- 2. The name of the compound with the formula KCl is
 - (A) Chloride Potassium
 - (B) Potassium Chlorate
 - (C) Potassium Chloride
 - (D) Chlorate Potassium
- 3. Ionic bonds are generally formed between:
 - (A) two metals.
 - (B) a metal and a nonmetal.
 - (C) two nonmetals.
 - (D) all are correct
- 4. An ionic bond is a bond that forms between
 - (A) ions with opposite charges
 - (B) atoms with neutral charges
 - (C) one atom's nucleus and another atom's electrons
 - (D) the electrons of two different atoms
- 5. In the process of ionic bonding
 - (A) Both atoms gain electrons
 - (B) One atom gains one or more electrons and the other loses the same number
 - (C) Atoms switch protons
 - (D) Both atoms lose electrons
- 6. Which pair of elements is most likely to form an ionic compound with each other?
 - (A) calcium, sodium
 - (B) oxygen, fluorine
 - (C) sulfur, carbon
 - (D) nitrogen, hydrogen
- 7. Which of the following compounds would you expect to be ionic?
 - (A) SF_6
 - (B) H_2O
 - (C) CO_2
 - (D) CaO
- 8. Which of the following compounds would you expect to be ionic?
 - (A) H_2O
 - (B) CO₂
 - (C) $SrCl_2$
 - (D) SO_2

9. Of the choices below, which one is not an ionic compound?

- (A) PCl_5
- (B) $CrCl_6$
- (C) NaC
- (D) $PbCl_2$

10. What is the correct name for the compound Na_2O ?

- (A) disodium oxide
- (B) disodium monoxide
- (C) sodium oxide
- (D) sodium monoxide

PART B: WRITTEN RESPONSE

1. List two features of an ionic bond

- [2]
- (I)_____(II) _____
- 2. Name the following ionic compounds:

a)	NaBr	
b)	NaCl	
c)	CaO	
d)	Li ₂ S	
e)	ZnI ₂	
f)	AgS_2	
g)	$SrCl_2$	
h)	RbF	
i)	BeO	