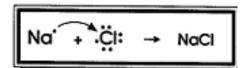
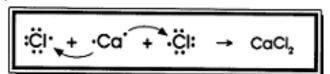
## **Unit 3 -** Topic 2 lonic Bonding

Element	Lewis Dot Structure as an ATOM	Lewis Dot Structure of Stable ION	Becomes like which noble gas?
Potassium			
Bromine			

The electron from K was transferred to Br and now they are both stable and 'bond' as a compound. The chemical formula of the compound will be: \_





## **Electron Transfer [\*Remember to draw ions in BRACKETS]**

lonic bonding occurs when a metal transfers one or more electrons to a non-metal to attain a stable octet.

Show the transfer of electrons in the following:

	Draw Arrow for electron Transfer	Draw a Lewis Structure of Resulting Compound
Magnesium and sulfur		
Lithium and nitrogen		
Calcium and nitrogen		
Aluminum and nitrogen		

Ná	ame:	Date:
N	aming Ionic Compounds	with Metals from Groups 1, 2, and 13
	3 . 31	ns) ionic compounds contain metals that have only one possible the name or formula for the following binary compounds.
Gi	ve the correct names for t	hese binary ionic compounds:
1.	KCl	
2.	MgO	
3.	BaS	
4.	$Mg_3P_2$	- <u></u>
5.	$Al_2O_3$	
Gi	ve the correct formulas fo	r these binary ionic compounds:
6.	calcium iodide	
7.	barium oxide	
8.	magnesium nitride	
9.	sodium chloride	
10	). calcium sulfide	
lo	nic Compounds with Trai	nsition Metals
	•	ds contain transition metals (including groups 3-12 and some in ame or formula of the following binary compounds.
Gi	ve the correct formulas fo	r these binary compounds:
11	. copper (II) iodide	
12	2. gold (I) sulfide	
13	3. iron (III) bromide	
14	. manganese (II) fluoride	
15	. chromium (VI) oxide	
Gi	ve the correct IUPAC nam	es for the following compounds:
16	o. FeCl <sub>3</sub>	
17	′. FeCl <sub>2</sub>	
18	3. MnCl <sub>2</sub>	
19	P. Agl	

20. CuBr