

Ionic,
Covalent, or
Polyatomic?
Use
Prefixes?

If you have a hard
time naming, don't
worry about the
Compound Name work on
this part

1. Al_2O_3	<u>Ionic</u>	<u>No</u>	<u>Aluminum Oxide</u>
2. O_2F_2	<u>Covalent</u>	<u>✓</u>	<u>Dioxygen Difluoride</u>
3. BeF_2	<u>Ionic</u>	<u>No</u>	<u>Beryllium Fluoride</u>
4. $\text{K}_2(\text{CO}_3)$	<u>Poly</u>	<u>No</u>	<u>Potassium Carbonate</u>
5. N_2F_3	<u>C</u>	<u>✓</u>	<u>dinitrogen tri fluoride</u>
6. SF_6	<u>C</u>	<u>✓</u>	<u>Sulfur hexafluoride</u>
7. $\text{Al}_2(\text{CrO}_4)_3$	<u>P</u>	<u>n</u>	<u>Aluminum Chromate</u>
8. P_4S_3	<u>C</u>	<u>✓</u>	<u>Tetraphosphorus trisulfide</u>
9. NaN_3	<u>I</u>	<u>N.</u>	<u>Sodium Nitride</u>
10. MgO	<u>I</u>	<u>N</u>	<u>Magnesium Oxide</u>
11. PF_3	<u>C</u>	<u>✓</u>	<u>Phosphorus trifluoride</u>
12. CO_2	<u>C</u>	<u>✓</u>	<u>Carbon dioxide</u>

Metal or Non-metal?

M Cobalt (Co)

M Sodium (Na)

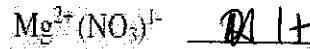
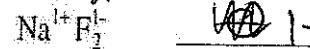
F Fluorine (F)

N Argon (Ar)

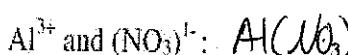
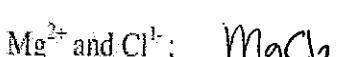
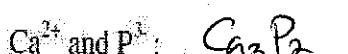
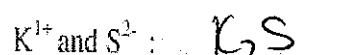
M Magnesium (Mg)

M Nickel (Ni)

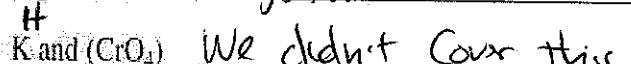
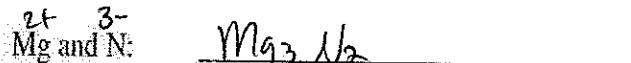
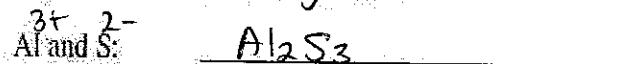
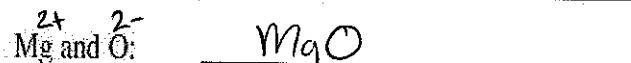
Give the total charge



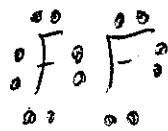
Write the balanced ionic compounds for the following:



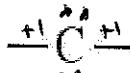
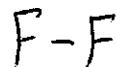
Write the balanced ionic formulas for the following:



Draw the Lewis Dot Diagram for molecular Fluorine (F_2).



Short hand

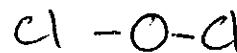


of electrons: 6



of electrons: 8

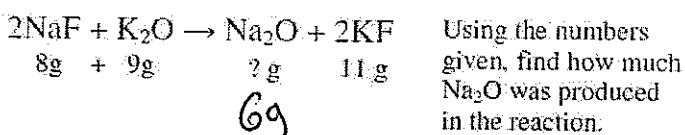
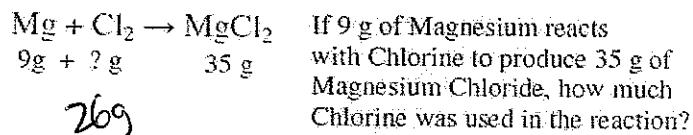
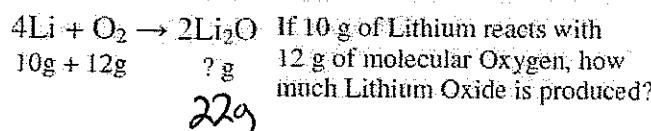
Using shorthand,
make Oxygen Dichloride



Name: _____

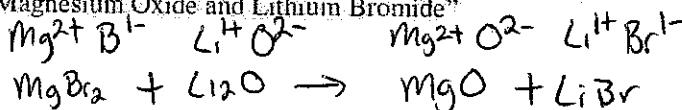
Period: _____

1. Molecular Mass C	A. When the reactants equal the products.
2. Closed System B	B. When the reaction is closed and gases can't escape.
3. The Law of Conservation of Mass A	C. How heavy a compound or molecule is.
4. Open System D	D. When gases aren't caught by the experimental setup.
5. Atomic Mass F	E. In a closed reaction mass cannot be lost.
6. Balanced Reaction E	F. The decimal numbers on the periodic table.



Write the following reaction, being sure to use the correct ionic formulas (balanced ionic compounds).

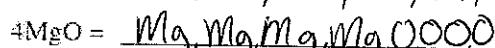
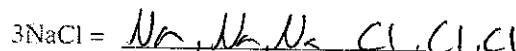
"Magnesium Bromide reacts with Lithium Oxide to produce Magnesium Oxide and Lithium Bromide"



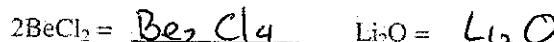
Why do we balance chemical reactions?

To prove the law of conservation of Matter (mass)

Expand out these compounds.



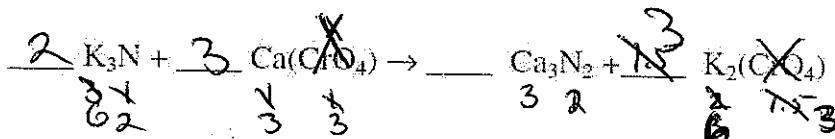
Write the following in reaction notation.



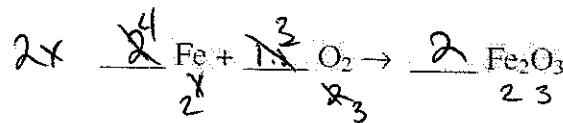
Type of Reaction

Balance these reactions:

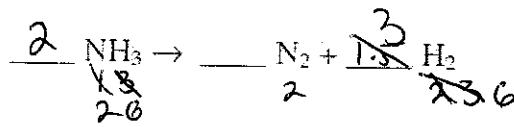
Double Displacement



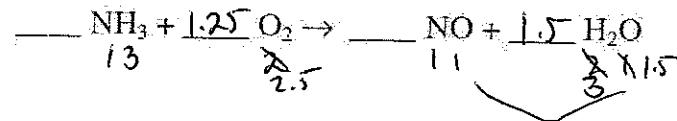
Addition or Synthesis



Decomposition



Combustion



Single Displacement

