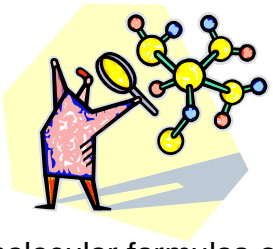
Molecular Models



Directions:

1. At each station, there are index card with three or more molecular formulas and materials to make each molecular model.
2. Create the models and complete the data table. Have it checked by your teacher before you leave each station.

Pre-Lab: Using your periodic table and materials at your desk, complete the following data table.

Element	Symbol	Color	# of holes	Lewis Structure	Metal or Non-Metal?	Give or Take/Share electrons?
	C	◯				
	H	◯				
	O	◯				
	Cl	◯				
	Na	◯				
	K	◯				
	Mg	◯				

(Metal + Non-Metal) = Ionic Bond & (Non-Metal + Non-Metal) = Covalent Bond

Cut along dotted lines and paste into lab journal

Analysis:

1. **What do the holes in the model represent?**
2. **What is the difference between an Ionic Bond and a Covalent bond?**
3. **How can you predict if a bond will be ionic or covalent by using the periodic table?**
4. **What is an Isomer?**

Conclusion:

Write 2-3 sentences on what you learned by doing this activity.

Cut pages to fit into notebook

Formula	Count Atoms	Draw and Color Model	Ionic/Covalent?
H_2	2 Hydrogen		
HCl			
NaCl			
KCl			
KOH			
$MgCl_2$			
MgH_2			
$Mg(OH)_2$			
H_20			

Formula	Count Atoms	Draw and Color Model	Ionic/Covalent?
H_2O_2			
CCl_4			
CH_4			
C_2H_6			
C_3H_8			
C_2H_6O			
C_2H_6O **Isomer**			