

Immunity Challenge Chem Time

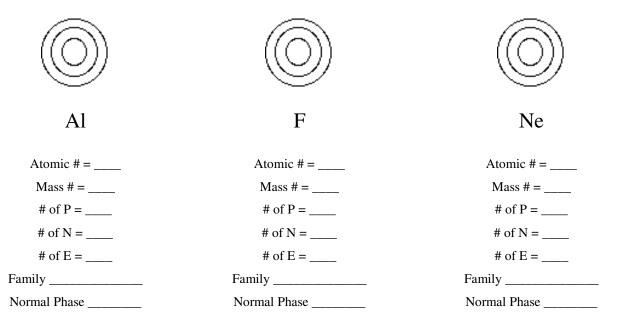
What do you remember from our chemistry unit?

Team Members: Color:

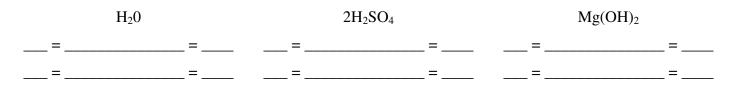
1. Complete the information in the chart.

Element	Atomic Number	Atomic Mass	# of Protons	# of Neutrons	# of Electrons	Charge
Chlorine						
Lithium						
Silicon						
Oxygen						
Tin						

2. Complete the information for each element and then draw the Bohr diagrams and Lewis structures.



3. List the symbol and name for each element in the compounds listed and then calculate the # of atoms.



4. Determine the type of bond for each compound using I for an IONIC bond and C for a COVALENT bond.

 CaCl2 _____
 CO2 _____
 H2O _____
 K2O _____

 NaF _____
 CH4 _____
 SO3 _____
 LiBr _____

5. Give the formula for each of these compounds.

Water	Table Salt	Ice
Hydrochloric Acid	Acetic Acid	Sodium Hydroxide
Calcium Carbonate	Magnesium Chloride	Carbon Dioxide

6. Balance each equation, and then identify using S for synthesis, D for decomposition, SR for single replacement, and DR for double replacement. SHOW ALL YOUR WORK!

 $Fe + O2 \rightarrow Fe2O3$ Type of Equation:

 $Be + HCl \rightarrow H2 + BeCl2$

Type of Equation: ____

 $Li2O \rightarrow Li + O2$

Type of Equation: ____

 $ZnS + AlP \rightarrow Zn3P2 + Al2S3$

Type of Equation: ____

Tie Breaker: _____