

Name: _____

Date: _____

Ionic Bonds Practice

1. Fill in the missing information on the chart.

Element	# of Protons	# of Electrons	# of Valence Electrons
Sodium			
Chlorine			
Beryllium			
Fluorine			
Lithium			
Oxygen			
Phosphorus			

2. For each of the following ionic bonds:

- Write the symbols for each element.
- Draw a Bohr Diagram for the valence shell of each element.
- Draw an arrow (or more if needed) to show the transfer of electrons to the new element.

a) Sodium + Chlorine

Name: _____

Date: _____

b) Magnesium + Iodine

c) Sodium + Oxygen

Name: _____

Date: _____

Covalent Bond Practice

1. Fill in the missing information on the chart.

Element	# of Protons	# of Electrons	# of Valence Electrons
Carbon			
Hydrogen			
Chlorine			
Helium			
Phosphorus			
Oxygen			
Sulfur			
Nitrogen			

2. For each of the following covalent bonds:

- Write the symbols for each element.
- Draw a Bohr Diagram for the valence shell of each element.
- Rearrange the electrons to pair up electrons from each atom.

a) Hydrogen + Hydrogen

Name: _____

Date: _____

b) Chlorine + Chlorine

c) Hydrogen + Chlorine