**Ionic Bonds – Bonding Basics**

Complete the following chart for each element.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Element | # of Protons | # of Electrons | # of Valence Electrons | Oxidation Number |
| Sodium |  |  |  |  |
| Chlorine |  |  |  |  |
| Beryllium |  |  |  |  |
| Fluorine |  |  |  |  |
| Lithium |  |  |  |  |
| Oxygen |  |  |  |  |
| Phosphorus |  |  |  |  |

Complete the Ionic Bond for the following scenarios:

1. Potassium + Fluorine

|  |  |  |
| --- | --- | --- |
| Symbols with oxidation numbers | Criss Cross the oxidation numbers | Final formula after simplifying |

Draw the Lewis Dot Structure Draw the bonding showing electrons being transferred

1. Magnesium + Iodine

|  |  |  |
| --- | --- | --- |
| Symbols with oxidation numbers | Criss Cross the oxidation numbers | Final formula after simplifying |

Draw the Lewis Dot Structure Draw the bonding showing electrons being transferred

1. Sodium + Oxygen

|  |  |  |
| --- | --- | --- |
| Symbols with oxidation numbers | Criss Cross the oxidation numbers | Final formula after simplifying |

Draw the Lewis Dot Structure Draw the bonding showing electrons being transferred

1. Sodium + Chlorine

|  |  |  |
| --- | --- | --- |
| Symbols with oxidation numbers | Criss Cross the oxidation numbers | Final formula after simplifying |

Draw the Lewis Dot Structure Draw the bonding showing electrons being transferred

1. Calcium + Chlorine

|  |  |  |
| --- | --- | --- |
| Symbols with oxidation numbers | Criss Cross the oxidation numbers | Final formula after simplifying |

Draw the Lewis Dot Structure Draw the bonding showing electrons being transferred

1. Aluminum + Chlorine

|  |  |  |
| --- | --- | --- |
| Symbols with oxidation numbers | Criss Cross the oxidation numbers | Final formula after simplifying |

Draw the Lewis Dot Structure Draw the bonding showing electrons being transferred