# MPHS U3 Lesson 1 Part 1 Check for Understanding

## Binary Ionic Compound (Type A Metal) Formula Writing

**Part 1**

Write the correct formula for each compound named below. Show the ions from which it is formed.

| | | | |
|---|---|---|---|
| 1) sodium chloride | $Na^{+1}$ | $Cl^{-1}$ | NaCl |
| 2) lithium bromide | _____ | _____ | _____ |
| 3) magnesium flouride | _____ | _____ | _____ |
| 4) potassium oxide | _____ | _____ | _____ |
| 5) calcium sulfide | _____ | _____ | _____ |
| 6) aluminum iodide | _____ | _____ | _____ |
| 7) barium bromide | _____ | _____ | _____ |
| 8) aluminum sulfide | _____ | _____ | _____ |
| 9) calcium phosphide ($P^{-3}$) | _____ | _____ | _____ |
| 10) lithium selenide | _____ | _____ | _____ |
| 11) magnesium telluride | _____ | _____ | _____ |
| 12) aluminum fluoride | _____ | _____ | _____ |
| 13) lithium oxide | _____ | _____ | _____ |
| 14) beryllium iodide | _____ | _____ | _____ |

| **Lewis Dot Diagram** (Use x's for Metal's Electrons) | | |  | | |
|---|---|---|---|---|---|
| **Name** | Sodium Atom | Fluorine Atom | | | |
| **Electron Configuration** | | | | | |
| **Shell Arrangement** | | | | | |
| **Protons** | | | | | |
| **Electrons** | | | | | |
| **Charge** | | | | | |

Final Formula of Ionic Compound = _____

Final Name of Ionic Compound = _____

| **Lewis Dot Diagram** (Use x's for Metal's Electrons) | | |  | | |
|---|---|---|---|---|---|
| **Name** | Calcium Atom | Chlorine Atom | | | |
| **Electron Configuration** | | | | | |
| **Shell Arrangement** | | | | | |
| **Protons** | | | | | |
| **Electrons** | | | | | |
| **Charge** | | | | | |

Final Formula of Ionic Compound = _____

Final Name of Ionic Compound = _____

| **Lewis Dot Diagram** (Use x's for Metal's Electrons) | | | ➡ | | |
|---|---|---|---|---|---|
| **Name** | Magnesium Atom | Sulfur Atom | | | |
| **Electron Configuration** | | | | | |
| **Shell Arrangement** | | | | | |
| **Protons** | | | | | |
| **Electrons** | | | | | |
| **Charge** | | | | | |

Final Formula of Ionic Compound = _____

Final Name of Ionic Compound = _____

| **Lewis Dot Diagram** (Use x's for Metal's Electrons) | | | ➡ | | |
|---|---|---|---|---|---|
| **Name** | Potassium Atom | Fluorine Atom | | | |
| **Electron Configuration** | | | | | |
| **Shell Arrangement** | | | | | |
| **Protons** | | | | | |
| **Electrons** | | | | | |
| **Charge** | | | | | |

Final Formula of Ionic Compound = _____

Final Name of Ionic Compound = _____

| **Lewis Dot Diagram** (Use x's for Metal's Electrons) | | | ➡ | | |
|---|---|---|---|---|---|
| **Name** | Calcium Atom | Phosphorus Atom | | | |
| **Electron Configuration** | | | | | |
| **Shell Arrangement** | | | | | |
| **Protons** | | | | | |
| **Electrons** | | | | | |
| **Charge** | | | | | |

Final Formula of Ionic Compound = _____

Final Name of Ionic Compound = _____

| **Lewis Dot Diagram** (Use x's for Metal's Electrons) | | | ➡ | | |
|---|---|---|---|---|---|
| **Name** | Beryllium Atom | Nitrogen Atom | | | |
| **Electron Configuration** | | | | | |
| **Shell Arrangement** | | | | | |
| **Protons** | | | | | |
| **Electrons** | | | | | |
| **Charge** | | | | | |

Final Formula of Ionic Compound = _____

Final Name of Ionic Compound = _____

| **Lewis Dot Diagram** (Use x's for Metal's Electrons) | | |  | | |
|---|---|---|---|---|---|
| **Name** | Aluminum Atom | Fluorine Atom | | | |
| **Electron Configuration** | | | | | |
| **Shell Arrangement** | | | | | |
| **Protons** | | | | | |
| **Electrons** | | | | | |
| **Charge** | | | | | |

Final Formula of Ionic Compound = _____

Final Name of Ionic Compound = _____

| **Lewis Dot Diagram** (Use x's for Metal's Electrons) | | |  | | |
|---|---|---|---|---|---|
| **Name** | Boron Atom | Oxygen Atom | | | |
| **Electron Configuration** | | | | | |
| **Shell Arrangement** | | | | | |
| **Protons** | | | | | |
| **Electrons** | | | | | |
| **Charge** | | | | | |

Final Formula of Ionic Compound = _____

Final Name of Ionic Compound = _____