**SCIENCE 10 – CHEMISTRY – METALS AND NONMETALS**

**NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ DATE: December 14, 2016**

**Comparison of Metals to Nonmetals (page 185 #1)**

|  |  |  |
| --- | --- | --- |
| **PROPERTY** | **METALS** | **NONMETALS** |
| Lustre (shiny or dull) |  |  |
| Malleability |  |  |
| Conductivity (electricity and heat) |  |  |
| State at room temperature(solid, liquid, or gas) |  |  |

**OTHER INFORMATION**

|  |  |  |
| --- | --- | --- |
| PROPERTY | METALS | NONMETALS |
| Location on periodic table(on left or right?) |  |  |
| Tendency to gain or lose electrons |  |  |
| Charges of ions formed (positive or negative) |  |  |
| Other properties |  |  |
| Any two examples (names with symbols) |  |  |

**BOHR-RUTHERFORD DIAGRAM**

Provide the following information of the following elements (A to J below) as shown in the example below:

* **Symbol** of the element (letter or letters)
* Draw the **Bohr-Rutherford diagram** (showing value or number of the proton, neutron, and electron number (use the periodic table or textbook).
* **Ionic charge** of the following elements (positive or negative charge)

Example:



Carbon

1. Symbol = C
2. Bohr diagram (see diagram to right)
3. Ionic charge = 4-

**ON YOUR OWN PAPER INDICATE THE FOLLOWING**:

* **Symbol** of the element (letter or letters)
* Draw the **Bohr-Rutherford diagram** (showing value or number of the proton, neutron, and electron number (use the periodic table or textbook).
* **Ionic charge** of the following elements (positive or negative charge)
1. Sodium
2. Magnesium
3. Oxygen
4. Silicon
5. Helium
6. Hydrogen
7. Carbon
8. Bromine
9. Nitrogen
10. Lithium