Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Pd: \_\_\_ Ast#: \_\_\_\_\_

**Physical Science Honors**

Science Performance Rating Scale

|  |  |
| --- | --- |
| **Big Idea: MATTER** | **Assessed at Complexity Level:****2 – BASIC APPLICATION OF SKILLS & CONCEPTS** |
| **Unit: Chemical Reactions** |
| **SC.9.12.P.8.7 – Interpret formula representations of molecules and compounds in terms of composition and structure.** |
| **MASTERY LEVEL** | **Performance Indicators** | **BEFORE INST.** | **DURING INST.** | **AFTER INST.** |
| **4** | **EXCEEDING****the Standard** | Correctly give the chemical formula for a compound or molecule based on the elements’ positions on the periodic table |  |  |  |
| Correctly name ionic compounds and covalent molecules based on the naming rules for each |  |  |  |
| Describe the properties of ionic compounds and covalent molecules |  |  |  |
| Predict the charge of ions based on the elements’ positions on the periodic table |  |  |  |
| **3** | **MASTERY** | **Interpret the type of bond that forms a compound based on the elements it is composed of** |  |  |  |
| **Identify the quantity of each element present in a compound using its chemical formula** |  |  |  |
| **2** | **PARTIAL MASTERY** | Identify elements by their chemical symbols using a periodic table |  |  |  |
| Describe elements in terms of electrons and valence electrons |  |  |  |
| Identify definitions of key terms such as: COVALENT BOND, ELEMENT, ION, IONIC BOND, OCTET RULE, NEUTRAL COMPOUND, POLYATOMIC ION, VALENCE ELECTRON, |  |  |  |
| **1** | **BUILDING MASTERY** | With help, I can demonstrate partial mastery of some of the simpler tasks listed above, but I still make some mistakes. |  |  |  |
| **0** | **NOVICE** | I currently have no knowledge or mastery of the skills and tasks listed above, but I will make an effort to learn them. |  |  |  |