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

**Physical Science Honors**

Science Performance Rating Scale

|  |  |
| --- | --- |
| **Big Idea: MATTER** | **Assessed at Complexity Level:****2 – BASIC APPLICATION OF SKILLS & CONCEPTS** |
| **Unit: Periodic Table** |
| **Benchmark: SC.9.12.P.8.5 – Relate properties of atoms and their position in the periodic table to the arrangement of their electrons.** |
| **MASTERY LEVEL** | **Performance Indicators** | **BEFORE INST.** | **DURING INST.** | **AFTER INST.** |
| **4** | **EXCEEDING****the Standard** | Apply patterns in the periodic table to make predictions about various elements |  |  |  |
| Describe how atoms can gain or lose charge by adding or subtracting electrons |  |  |  |
| **3** | **MASTERY** | **Explain patterns that are present in the organization of the periodic table, such as atomic number, atomic mass, valence electrons, density, physical properties of elements, and chemical properties of elements.** |  |  |  |
| **Describe the arrangement of electrons within atoms of specific elements (electron configuration)** |  |  |  |
| **Relate the position of elements in the periodic table to their electron configuration.** |  |  |  |
| **2** | **PARTIAL MASTERY** | Recognize that elements in the same group of the periodic table share similar properties |  |  |  |
| Recognize that elements in each period of the periodic table demonstrate a regular, repeated pattern of characteristics |  |  |  |
| Identify definitions of key terms such as: ELEMENT, ATOMIC NUMBER, ATOMIC MASS (a.m.u.), PERIOD, GROUP, PERIODIC, VALENCE ELECTRON, METAL, METALLOID, NON-METAL, ELECTRON CONFIGURATION, OCTET RULE |  |  |  |
| **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. |  |  |  |