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

**Physical Science Honors**

Science Performance Rating Scale

|  |  |
| --- | --- |
| **Big Idea: MATTER** | **Assessed at Complexity Level:****3 – STRATEGIC THINKING & COMPLEX REASOING** |
| **Unit: Atoms** |
| **Benchmark: SC.9.12.P.8.3 – Explore the scientific theory of atoms (also known as atomic theory) by describing changes in the atomic model over time and why those changes were necessitated by experimental evidence.** |
| **MASTERY LEVEL** | **Performance Indicators** | **BEFORE INST.** | **DURING INST.** | **AFTER INST.** |
| **4** | **EXCEEDING****the Standard** | Describe what would happen if scientists were to confirm evidence of structures within an atom that make up the sub-atomic particles |  |  |  |
| Explain how the development of atomic theory illustrates the testable and tentative nature of science. |  |  |  |
| **3** | **MASTERY** | **Cite experimental evidence to explain why the atomic model has been changed over time** |  |  |  |
| **Describe specific changes in the atomic model over time** |  |  |  |
| **2** | **PARTIAL MASTERY** | Recognize that our understanding of atomic theory has changed over time to fit new evidence |  |  |  |
| Identify definitions of key terms such as: ALPHA-PARTICLE, ATOM, “ATOMOS”, ELECTRON, ELECTRON CLOUD, MATTER, NEUTRON, NUCLEUS, PROTON |  |  |  |
| **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. |  |  |  |