

Essential Standards Chart 1st and 2nd Nine Weeks 2019-10

Subject: Science Grade: 8 Team Members: Dr. Thielbar, C. Schwartz, M. Cowley

Standard #	Standard Description	Example/Rigor	Prior Skills Needed	Common Assessment /Summative	When Taught
8.5 A	Describe the structure of atoms, including the masses, electrical charges, and locations, of protons and neutrons in the nucleus and electrons in the electron cloud.	Analyze the relationship of atomic structure, elements, and their placement on the periodic table within lab activities and classroom instruction in "Dimitri Did It Again."	Basic Atomic Structure	Concept Quizzes, "Periodic Table Stations", "Dimitri Did It Again" assessment	Weeks 2-4
8.5 C	Interpret the arrangement of the Periodic Table, including groups and periods, to explain how properties are used to classify elements	Look at the atomic structure of various elements to determine their classification and placement on the periodic table as metal, non-metal, metalloid and noble gas.	Basic Periodic Table Knowledge	CAP, Unit Test, Concept Quizzes, Gizmos	Weeks 4-8
8.8 A	Describe components of the universe, including stars, nebulae, and galaxies, and use models such as the Hertzsprung-Russell diagram for classification	Students will be able to categorize stars by the characteristics given and explain the parts of the HR Diagram. Describe the four types of stars categorized on the HR Diagram.	Understanding of elements and fusion of new elements.	Unit Test, Concept Quizzes, Gizmos	Weeks 8-13

