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| Benchmarks | Garden Example lessons |
| **Standard 1: SCIENTIFIC INVESTIGATION** | |
| SC.6.1.1 – **The Scientific Process** – Construct a hypotheses (if, then, because) that can be tested through a controlled experiment. |  |
| SC.6.1.2 – **Scientific Inquiry** – Select and safely use tools/equipment/techniques to collect, analyze and display data. |  |
| **Standard 2: NATURE OF SCIENCE**  **Science/Technology/Society** | |
| SC.6.2.1 – Give examples of how technology impacts society and science. |  |
| SC.6.2.2 – How do the needs of society influence technology? Predict possible developments. |  |
| **Standard 3: ORGANISMS AND THE ENVIRONMENT** | |
| SC.6.3.1 – **Matter and Energy Cycles** – Describe the flows of matter and energy in the ecosystem as they are continuously transferred from one form to another within organisms and their environment. |  |
| **Standard 4: STRUCTURE AND FUNCTION IN ORGANISMS**  NO BENCHMARKS | |
| **Standard 5: DIVERSITY, GENETICS, AND EVOLUTION**  NO BENCHMARKS | |
| **Standard 6: NATURE OF MATTER AND ENERGY** | |
| SC.6.6.1 - **The Transformation of Energy** – Describe and compare how heat energy can be transferred through conduction, convection, and radiation in the real world. |  |
| SC.6.6.2 - Describe different kinds of energy transformations and give examples of their application. |  |
| SC.6.6.3 – Explain the conservation of energy and compare input and output of energy of a device or process. |  |
| SC.6.6.4 – Compare and explain different types of energy waves and provide examples of real world applications. |  |
| SC.6.6.5 – **The Nature of Matter** - Describe how matter remains constant before and after physical or chemical change: the conservation of matter. |  |
| SC.6.6.6 – The student can compare and contrast physical and chemical properties (melting point, boiling point, magnetism conductivity, rusting, etc.) of different substances. |  |
| SC.6.6.7 – The student can describe the ways matter is organized on the periodic table and use it to identify an element’s properties. |  |
| SC.6.6.8 – The student observes chemical reactions and identifies changes (release of heat, light, or gas). |  |
| SC.6.6.9 – The student can illustrate how matter is made up of atoms (protons/neutrons/nucleus/electrons). |  |
| SC.6.6.10 – The student can manipulate a model to demonstrate how waves spread away from their source. |  |
| **Standard 7: FORCE AND MOTION** | |
| SC.6.7.1 – **Force and Motion** – Give examples of how forces affect an object’s motion. |  |
| SC.6.7.2 – **Forces in the Universe** – Electric currents produce magnetic effects and magnets can cause electric currents. |  |
| **Standard 8: EARTH AND SPACE SCIENCE**  NO BENCHMARKS | |