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| Benchmarks | Garden Example lessons |
| **Standard 1: SCIENTIFIC INVESTIGATION** | |
| SC.4.1.1 – **Scientific Inquiry** – Describe a testable hypothesis (if/then/because) and an experiment to test it. |  |
| SC.4.1.2 – **Scientific Knowledge** – Observation and inference. |  |
| **Standard 2: NATURE OF SCIENCE**  **Science/Technology/Society** | |
| SC.4.2.1 – Describe how farming has influenced economy, demography and environment in Hawai’i and create a plan to improve conditions in the natural environment. |  |
| **Standard 3: ORGANISMS AND THE ENVIRONMENT** | |
| SC.4.3.1 – **Matter and Energy Cycles** – Food Chains and Food Webs |  |
| SC.4.3.2 – **Interdependence** – Observe and describe how organisms are dependent and influenced by their environment. |  |
| **Standard 4: STRUCTURE AND FUNCTION IN ORGANISMS** | |
| SC.4.4.1 – **Living Systems** –Describe differences between plant and animal cells (form and function). |  |
| **Standard 5: DIVERSITY, GENETICS, AND EVOLUTION** | |
| SC.4.5.1 – **Biological Evolution** – Describe similarities and differences between fossils and living things. |  |
| SC.4.5.2 – **Unity and Diversity** – Role of organisms in the same environment – decomposers, producers, consumers – how do they live together (interrelationships). |  |
| SC. 4.5.3 - Describe how different organisms need specific environmental conditions to survive. How does environment support life. |  |
| **Standard 6: NATURE OF MATTER AND ENERGY** | |
| SC.4.6.1 – **The Nature of Matter** – How can materials be combined to form new materials? |  |
| SC.4.6.2 – **The Transformation of Energy** – Explore and observe energy transformation in a variety of materials and systems. |  |
| **Standard 7: FORCE AND MOTION** | |
| SC.4.7.1 – **Forces in the Universe** – Earth exerts gravity on all objects. |  |
| **Standard 8: EARTH AND SPACE SCIENCE** | |
| SC. 4.8.1 – **Forces that Shape the Earth** – How do slow Earth (climate) forces reshape the surface of the Earth over time. |  |
| SC.4.8.2 – How do fast Earth forces (earthquakes/volcanoes) reshape the surface of the Earth over time. |  |
| SC.4.8.3 – **The Earth in the Solar System** – Describe the relationship between the sun and the Earth’s daily rotation and annual revolution. |  |