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| Benchmarks | Garden Example lessons |
| **Standard 1: SCIENTIFIC INVESTIGATION**  **Scientific Inquiry** | |
| SC.5.1.1– What are variables in an experiment and how can you control them. |  |
| SC.5.1.2 – Present findings and conclusions to classmates and answer questions using the evidence gathered. |  |
| **Standard 2: NATURE OF SCIENCE** | |
| SC.5.2.1 – **Unifying Concepts and Themes** – Use models or simulations (figures, numbers, graphs, charts, diagrams, sketches, maps, number lines or stories) to represent features of objects, events, or processes in the real world. |  |
| **Standard 3: ORGANISMS AND THE ENVIRONMENT** | |
| SC.5.3.1 – **Matter and Energy Cycles** - Describe and draw the flow of energy between producers, consumers, and decomposers in food webs. |  |
| SC.5.3.2 – **Interdependence** – Illustrate the relationships among producers, consumers, and decomposers in an ecosystem. |  |
| **Standard 4: STRUCTURE AND FUNCTION IN ORGANISMS** | |
| SC.5.4.1 – **Living Systems** – How do organ systems work together to sustain life? |  |
| **Standard 5: DIVERSITY, GENETICS, AND EVOLUTION** | |
| SC.5.5.1 – **Heredity** – What are inherited traits (flower color, leaf form, eye color) and learned traits. Which ones can be changed? |  |
| **Standard 6: NATURE OF MATTER AND ENERGY** | |
| SC.5.6.1 – **The Transformation of Energy** – Identify different forms of energy and offer examples of energy transformation (changing forms). |  |
| SC.5.6.2 – Provide examples of heat transfer from one object to another. |  |
| SC.5.6.3 – **Waves** – Demonstrate and compare how light can be reflected, refracted, and absorbed. |  |
| **Standard 7: FORCE AND MOTION** | |
| SC.5.7.1 – **Forces in the Universe** – Explain how electrically charged materials can push or pull other charged materials. |  |
| **Standard 8: EARTH AND SPACE SCIENCE**  **The Earth in the Solar System** | |
| SC.5.8.1 – Create a model or diagram showing the sizes of and distance between Earth and other planets. |  |
| SC.5.8.2 – Give examples of research and information gathered by astronomers on Mauna Kea. |  |
| SC.5.8.3 – Demonstrate and explain how the planets orbit the sun and the moon orbits the Earth. |  |
| SC.5.8.4 – Understand and can explain that day and night is caused by the rotation of the Earth on its axis. |  |