

CORRELATIONS BETWEEN

State of Hawaii Science Education Standards
For Grade 5

and

Seeds of Science/Roots of Reading[®]

Units for Grades 2 through 5:

Soil Habitats
Shoreline Science
Designing Mixtures
Gravity & Magnetism
Light Energy
Weather & Water
Variation and Adaptation
Digestion and Body Systems
Planets & Moons
Aquatic Ecosystems
Models of Matter
Chemical Changes

Hawaii Science Standards – 5th Grade

Hawaii Science Standards – 5th Grade	2 nd - 3 rd Grade				3 rd - 4 th Grade				4 th - 5 th Grade			
	Soil Habitats	Shoreline Science	Designing Mixtures	Gravity & Magnetism	Light Energy	Weather & Water	Variation and Adaptation	Digestion & Body Systems	Planets & Moons	Aquatic Ecosystems	Models of Matter	Chemical Changes
The Scientific Process Standard 1: The Scientific Process: SCIENTIFIC INVESTIGATION: Discover, invent, and investigate using the skills necessary to engage in the scientific process												
Scientific Inquiry												
SC.5.1.1 Identify the variables in scientific investigations and recognize the importance of controlling variables in scientific experiments									
SC.5.1.2 Formulate and defend conclusions based on evidence
The Scientific Process Standard 2: The Scientific Process: NATURE OF SCIENCE: Understand that science, technology, and society are interrelated												
Unifying Concepts and Themes												
SC.5.2.1 Use models and/or simulations to represent and investigate features of objects, events, and processes in the real world
Life and Environmental Sciences Standard 3: Life and Environmental Sciences: ORGANISMS AND THE ENVIRONMENT: Understand the unity, diversity, and interrelationships of organisms, including their relationship to cycles of matter and energy in the environment												
Cycles of Matter and Energy												

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- = Touched upon in the unit providing good reinforcement to other experiences and/or an opportunity for teachers to expand instruction to address the standard partially or completely.

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SC.5.3.1 Describe the cycle of energy among producers, consumers, and decomposers										••		
Interdependence												
SC.5.3.2 Describe the interdependent relationships among producers, consumers, and decomposers in an ecosystem in terms of the cycles of matter										••		
Life and Environmental Sciences												
Standard 4: Life and Environmental Sciences: STRUCTURE AND FUNCTION IN ORGANISMS: Understand the structures and functions of living organisms and how organisms can be compared scientifically												
Cells, Tissues, Organs, and Organ Systems												
SC.5.4.1 Describe the structures of the human body and how they work together to sustain life								•••				
Life and Environmental Sciences												
Standard 5: Life and Environmental Sciences: DIVERSITY, GENETICS, AND EVOLUTION: Understand genetics and biological evolution and their impact on the unity and diversity of organisms												
Heredity												
SC.5.5.1 Recognize that some traits of living things are inherited and others are learned							•••					

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Physical, Earth, and Space Sciences Standard 6: Physical, Earth and Space Science: NATURE OF MATTER AND ENERGY: Understand the nature of matter and energy, forms of energy (including waves) and energy transformations, and their significance in understanding the structure of the universe												
Energy and its Transformation												
SC.5.6.1 Identify different forms of energy (e.g., thermal, electrical, nuclear, light, sound) and how they can change and transfer energy from one form to another					...							
SC.5.6.2 Describe ways that heat can be transferred from one object to another						
Waves												
SC.5.6.3 Compare what happens to light when it is reflected, refracted, and absorbed					...							
Physical, Earth, and Space Sciences Standard 7: Physical, Earth, and Space Sciences: FORCE AND MOTION: Understand the relationship between force, mass, and motion of objects; and know the major natural forces: gravitational, electric, and magnetic												
Forces of the Universe												
SC.5.7.1 Explain how electrically charged materials can push or pull other charged materials				.								

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Physical, Earth, and Space Sciences Standard 8: Physical, Earth, and Space Sciences: EARTH AND SPACE SCIENCE: Understand the Earth and its processes, the solar system, and the universe and its contents												
Earth in the Solar System												
SC.5.8.1 Describe the relationship (size and distance) of Earth to other components in the solar system									...			
SC.5.8.2 Describe examples of what astronomers have discovered using telescopes							
SC.5.8.3 Explain that the planets orbit the sun and that the moon orbits the Earth									...			
SC.5.8.4 Demonstrate that day and night are caused by the rotation of the Earth on its axis									...			

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