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Hawaii

**Content and Performance
Standards III
Grades 4-5**

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Hawaii Content and Performance Standards III
Grade 4

Hawaii HCPSIII Grade 4	Great Source <i>ScienceSaurus</i> ©2005
Strand: The Scientific Process	
Standard 1: The Scientific Process: SCIENTIFIC INVESTIGATION: Discover, invent, and investigate using the skills necessary to engage in the scientific process	
Topic: Scientific Inquiry	
SC.4.1.1 Describe a testable hypothesis and an experimental procedure	SE: 6-18
Topic: Scientific Knowledge	
SC.4.1.2 Differentiate between an observation and an inference	SE: 18
Standard 2: The Scientific Process: NATURE OF SCIENCE: Understand that science, technology, and society are interrelated	
Topic: Science, Technology, and Society	
SC.4.2.1 Describe how the use of technology has influenced the economy, demography, and environment of Hawaii	The opportunity to address this objective is available. See the following: SE: 360, 361, 367
Strand: 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	
Topic: Cycles of Matter and Energy	
SC.4.3.1 Explain how simple food chains and food webs can be traced back to plants	SE: 137, 138, 351
Topic: Interdependence	
SC.4.3.2 Describe how an organism's behavior is determined by its environment	SE: 77, 92-97

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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		
Topic: Cells, Tissues, Organs, and Organ Systems		
SC.4.4.1	Identify the basic differences between plant cells and animal cells	SE: 100-103
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		
Topic: Biological Evolution		
SC.4.5.1	Compare fossils and living things	SE: 177, 185
Topic: Unity and Diversity		
SC.4.5.2	Describe the roles of various organisms in the same environment	SE: 130-138
SC.4.5.3	Describe how different organisms need specific environmental conditions to survive	SE: 76, 96, 97, 130-131
Strand: Physical, Earth, and Space Sciences		
Standard 6: Physical, Earth, and Space Sciences: 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		
Topic Nature of Matter		
SC.4.6.1	Describe how some materials may be combined to form new substances	SE: 256-257, 258, 259
Topic Energy and its Transformation		
SC.4.6.2	Explain what is needed for electricity to flow in a circuit to create light and sound	SE: 300-303
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		
Topic: Forces of the Universe		
SC.4.7.1	Describe that the mass of the Earth exerts a gravitational force on all objects	SE: 227, 270-271

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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		
Topic: Forces that Shape the Earth		
SC.4.8.1	Describe how slow processes sometimes shape and reshape the surface of the Earth	SE: 170-177
SC.4.8.2	Describe how fast processes (e.g., volcanoes, earthquakes) sometimes shape and reshape the surface of the Earth	SE: 178-183
Topic: Earth in the Solar System		
SC.4.8.3	Describe the relationship between the sun and the Earth's daily rotation and annual revolution	SE: 218-221



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Grade 5**

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Strand: The Scientific Process	
Standard 1: The Scientific Process: SCIENTIFIC INVESTIGATION: Discover, invent, and investigate using the skills necessary to engage in the scientific process	
Topic: Scientific Inquiry	
SC.5.1.1 Identify the variables in scientific investigations and recognize the importance of controlling variables in scientific experiments	SE: 8, 15
SC.5.1.2 Formulate and defend conclusions based on evidence	SE: 17, 18
Standard 2: The Scientific Process: NATURE OF SCIENCE: Understand that science, technology, and society are interrelated	
Topic: 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	SE: 26, 27
Strand: 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	
Topic: Cycles of Matter and Energy	
SC.5.3.1 Describe the cycle of energy among producers, consumers, and decomposers	SE: 133-138

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Topic: Interdependence		
SC.5.3.2	Describe the interdependent relationships among producers, consumers, and decomposers in an ecosystem in terms of the cycles of matter	SE: 130-131, 137-138
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		
Topic: 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	SE: 110-125
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		
Topic: Heredity		
SC.5.5.1	Recognize that some traits of living things are inherited and others are learned	SE: 82, 93
Strand: 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		
Topic: 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	SE: 285-287
SC.5.6.2	Describe ways that heat can be transferred from one object to another	SE: 288-294
Topic: Waves		
SC.5.6.3	Compare what happens to light when it is reflected, refracted, and absorbed	SE: 312-314

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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	
Topic: Forces of the Universe	
SC.5.7.1 Explain how electrically charged materials can push or pull other charged materials	SE: 296-297
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	
Topic: Earth in the Solar System	
SC.5.8.1 Describe the relationship (size and distance) of Earth to other components in the solar system	SE: 228
SC.5.8.2 Describe examples of what astronomers have discovered using telescopes	SE: 238-239, 359
SC.5.8.3 Explain that the planets orbit the sun and that the moon orbits the Earth	SE: 220-225, 226-233
SC.5.8.4 Demonstrate that day and night are caused by the rotation of the Earth on its axis	SE: 218-219



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