

Connecticut State Science Standards Correlation

Inquiry Investigations™ Physical Science Series I - 1013060																												
Grade	Standard Topic	Concept	Standard #	UNIT 1 THE WORLD OF PHYSICAL SCIENCE																								
				Exploring the Scientific Method LAB 1013080						Exploring the Science of Measurement LAB 1013082						Exploring Heat and Energy LAB 1013084						Exploring Light and Optics LAB 1013086					Exploring Electricity LAB 1013088	
				Effect of temperature on the emergence of sponge creatures	Effect of pH on the emergence of sponge creatures	The metric system (SI)	Measuring density	Measuring temperature	Measuring pH	Measuring low concentrations of water pollutants	Heat of fusion of ice	Thermal conductivity of different metals	Thermal expansion	Demonstrating radiant heat and energy	Calibration of a thermometer	Visible light spectrum	What is color?	Reflection of light	Polarized light	The laser	The electroscope	Electrolytes	Resistors in series and parallel					
Grades 6 - 8	Scientific Inquiry	Scientific inquiry is a thoughtful and coordinated attempt to search out, describe, explain and predict natural phenomena.	CINQ.1 - CINQ.4																									
		Scientific inquiry progresses through a continuous process of questioning, data collection, analysis, and interpretation.																										
		Scientific inquiry requires the sharing of findings and ideas for critical review by colleagues and other scientists.																										
Grades 6 - 8	Scientific Literacy	Scientific literacy includes speaking, listening, presenting, interpreting, reading, and writing about science.	CINQ.5 - CINQ.9																									
		Scientific literacy also includes the ability to search for and assess the relevance and credibility of scientific information found in various print and electronic media.																										
Grades 6 - 8	Scientific Numeracy	Scientific numeracy includes the ability to use mathematical operations and procedures to calculate, analyze, and present scientific data and ideas.	CINQ.10																									
Grade 8	Science and Technology in Society	8.4-In the design of structures there is a need to consider factors such as function, materials, safety, cost, and appearance.	C30																									

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		Inquiry Investigations™ Physical Science Series II - 1013061																		
Grade	Standard Topic	Concept	Standard #	UNIT 1 GRAVITY				UNIT 2 MAGNETISM				UNIT 3 PROPERTIES OF SOUND				UNIT 4 FORCES, MOTION, AND SIMPLE MACHINES				
				Exploring Gravity LAB 1013090				Exploring Magnetism LAB 1013092				Exploring Sound Waves LAB 1013094				Exploring Force and Motion LAB 1013096		Exploring Simple Machines LAB 1013098		
				Determination of the density of a solid	Learning about gravitation	Archimedes principle	Teacher demonstration - pressure	Investigating the behavior of the magnetic compass	The magnetic field of a bar magnet	Constructing an electromagnet	Electromagnetic induction	Investigating properties of sound	Interaction of sound waves	Doppler effect	Observing the properties of a wave	Investigating Newton's laws of motion	Friction	Rotational inertia	Collisions	The lever
Grades 6 - 8	Scientific Inquiry	Scientific inquiry is a thoughtful and coordinated attempt to search out, describe, explain and predict natural phenomena.	CINQ.1 - CINQ.4																	
		Scientific inquiry progresses through a continuous process of questioning, data collection, analysis, and interpretation.																		
		Scientific inquiry requires the sharing of findings and ideas for critical review by colleagues and other scientists.																		
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		Scientific literacy also includes the ability to search for and assess the relevance and credibility of scientific information found in various print and electronic media.																		
	Scientific Numeracy	Scientific numeracy includes the ability to use mathematical operations and procedures to calculate, analyze, and present scientific data and ideas.	CINQ.10																	
Grade 7	Energy Transfer and Transformations	7.1-Energy provides the ability to do work and can exist in many forms.	C12, C13, C14																	
Grade 8	Forces and Motion	8.1-An object's inertia causes it to continue moving the way it is moving unless it is acted upon by a force to change its motion.	C22, C23, C24																	
	Science and Technology in Society	8.4-In the design of structures there is a need to consider factors such as function, materials, safety, cost, and appearance.	C30																	