

Colorado State Science Standards Correlation

Inquiry Investigations™ Physical Science Series I - 1013060																						
Standard Topic	Concept	Standard #	UNIT 1 THE WORLD OF PHYSICAL SCIENCE							UNIT 2 HEAT AND ENERGY					UNIT 3 LIGHT AND OPTICS					UNIT 4 ELECTRICITY		
			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
Scientific Inquiry	Students understand the processes of scientific investigation and design, conduct, communicate about, and evaluate such investigations.	Standard 1: 1.1																				
Physical Science	Students know that matter has characteristic properties, which are related to its composition and structure.	Standard 2: 2.1																				
	Students know that energy appears in different forms, and can move (be transferred) and change (be transformed).	Standard 2: 2.2																				
	Students understand that interactions can produce changes in a system, although the total quantities of matter and energy remain unchanged	Standard 2: 2.3																				
Life Science	Students know and understand interrelationships of matter and energy in living systems.	Standard 3: 3.2																				
Nature of Science	Students know and understand interrelationships among science, technology, and human activity and how they can affect the world.	Standard 5: 1.1																				
	Students understand that science involves a particular way of knowing and understanding common connections among scientific disciplines.	Standard 6: 1.1																				

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		Inquiry Investigations™ Physical Science Series II - 1013061																		
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	The pulley
Scientific Inquiry	Students understand the processes of scientific investigation and design, conduct, communicate about, and evaluate such investigations.	Standard 1: 1.1																		
Physical Science	Students know that matter has characteristic properties, which are related to its composition and structure.	Standard 2: 2.1																		
	Students know that energy appears in different forms, and can move (be transferred) and change (be transformed).	Standard 2: 2.2																		
	Students understand that interactions can produce changes in a system, although the total quantities of matter and energy remain unchanged	Standard 2: 2.3																		
Nature of Science	Students know and understand interrelationships among science, technology, and human activity and how they can affect the world.	Standard 5: 1.1																		
	Students understand that science involves a particular way of knowing and understanding common connections among scientific disciplines.	Standard 6: 1.1																		