

California State Science Standards Correlation

Inquiry Investigations™ Physical Science Series I																					
Standard	Topic	Overview	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
Investigation and Experimentation	Scientific Inquiry	Develop a hypothesis.																			
	Scientific Inquiry	Collect data, Perform tests (using appropriate tools).																			
	Scientific Inquiry	Construct graphs, Evaluate evidence, Analyze results.																			
	Scientific Inquiry	Communicate the steps and results from an investigation in written reports and oral presentations.																			
	Scientific Inquiry	Evaluate accuracy and reproducibility of data.																			
	Scientific Inquiry	Identify variable and controlled parameters in a test.																			
Focus on Earth Science	Heat (Thermal Energy - Physical Sciences)	Energy can be carried from one place to another, Heat is transferred between objects by conduction, convection, and radiation.																			
	Energy in the Earth System	Convection currents, Sun as a major energy source, Changes in weather result from differences in pressure, heat, air movement, and humidity.																			
	Resources	Natural energy, Material resources, Renewable or nonrenewable resources.																			
Focus on Life Science	Physical Principles in Living Systems (Physical Sciences)	Visible light, Lenses, Light can be reflected, refracted, transmitted, and absorbed by matter, Levers, Mechanical advantage.																			

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		Inquiry Investigations™ Physical Science Series II																		
Standard	Topic	Overview	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
Investigation and Experimentation	Scientific Inquiry	Develop a hypothesis.																		
	Scientific Inquiry	Collect data, Perform tests (using appropriate tools).																		
	Scientific Inquiry	Construct graphs, Evaluate evidence, Analyze results.																		
	Scientific Inquiry	Communicate the steps and results from an investigation in written reports and oral presentations.																		
	Scientific Inquiry	Evaluate accuracy and reproducibility of data.																		
	Scientific Inquiry	Identify variable and controlled parameters in a test.																		
Focus on Physical Science	Motion	Speed and Velocity.																		
	Forces	Forces have direction and magnitude, Balanced and Unbalanced forces.																		

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