

Ohio State Science Standards Correlation

		Inquiry Investigations™ Physical Science Series I - 1013060																			
Academic Content Standard	Benchmark	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
Physical Sciences	C	Describe renewable and nonrenewable sources of energy (e.g., solar, wind, fossil fuels, biomass, hydroelectricity, geothermal, and nuclear energy) and management of these sources.																			
	D	Describe that energy takes many forms, some forms represent kinetic energy and some forms represent potential energy; and during energy transformations the total amount of energy remains constant.																			
Science and Technology	A	Give examples of how technological advances, influenced by scientific knowledge, affect the quality of life.																			
	B	Design a solution or product taking into account needs and constraints (e.g., cost, time, trade-offs, properties of materials, safety, and aesthetics).																			
Scientific Inquiry	A	Explain that there are different sets of procedures for guiding scientific investigations and procedures are determined by the nature of the investigation, safety considerations, and appropriate tools.																			
	B	Analyze and interpret data from scientific investigations using appropriate mathematical skills in order to draw valid conclusions.																			
Scientific Ways of Knowing	A	Use skills of science inquiry processes (e.g., hypothesis, record keeping, description, and explanation).																			
	B	Explain the importance of reproducibility and reduction of the bias in scientific methods.																			
	C	Give examples of how thinking scientifically is helpful in everyday life.																			

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		Inquiry Investigations™ Physical Science Series II - 1013061																		
Academic Content Standard	Benchmark	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
Physical Sciences	B	In simple cases, describe the motion of objects and conceptually describe the effects of forces on an object.																		
	C	Describe renewable and nonrenewable sources of energy (e.g., solar, wind, fossil fuels, biomass, hydroelectricity, geothermal, and nuclear energy) and management of these sources.																		
	D	Describe that energy takes many forms, some forms represent kinetic energy and some forms represent potential energy; and during energy transformations the total amount of energy remains constant.																		
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Scientific Ways of Knowing	A	Use skills of science inquiry processes (e.g., hypothesis, record keeping, description, and explanation).																		
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	C	Give examples of how thinking scientifically is helpful in everyday life.																		