

Nevada State Science Standards Correlation

Standard Topic		Strand	Standard Number	Concept(s)	Inquiry Investigations™ Physical Science Series I - 1013060																		
					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
Scientific Inquiry (Nature of Science Unifying Concept A)	Students understand that scientific knowledge requires critical consideration of verifiable evidence obtained from inquiry and appropriate investigations	N.8.A.1	Students know how to identify and critically evaluate information in data, tables, and graphs.																				
		N.8.A.2	Students know how to critically evaluate information to distinguish between fact and opinion.																				
		N.8.A.3	Students know different explanations can be given for the same evidence.																				
		N.8.A.4	Students know how to design and conduct a controlled experiment.																				
		N.8.A.5	Students know how to use appropriate technology and laboratory procedures safely for observing, measuring, recording, and analyzing data.																				
		N.8.A.6	Students know scientific inquiry includes evaluating results of scientific investigations, experiments, observations, theoretical and mathematical models, and explanations proposed by other scientists.																				
		N.8.A.7	Students know there are multiple methods for organizing items and information.																				
Science: Technology and Society (Nature of Science Unifying Concept B)	Students understand the interactions of science and society in an every-changing world.	N.8.B.2	Students know scientific knowledge is revised through a process of incorporating new evidence gained through on-going investigation and collaborative discussion.																				
Energy (Physical Science Unifying Concept C)	Students understand transfer of energy	P.8.C.1	Students know visible light is a narrow band within the electromagnetic spectrum.																				
		P.8.C.3	Students know physical, chemical, and nuclear changes involve a transfer of energy.																				
		P.8.C.4	Students know energy cannot be created or destroyed, in a chemical or physical reaction, but only changed from one form to another.																				
		P.8.C.5	Students know heat energy flows from warmer materials or regions to cooler ones through conduction, convection, and radiation.																				
		P.8.C.6	Students know electrical circuits provide a means of transferring electrical energy to produce heat, light, sound, and chemical changes.																				

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		Inquiry Investigations™ Physical Science Series II - 1013061																				
Standard Topic	Strand	Standard Number	Concept(s)	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	The inclined plane
Scientific Inquiry (Nature of Science Unifying Concept A)	Students understand that scientific knowledge requires critical consideration of verifiable evidence obtained from inquiry and appropriate investigations	N.S.A.1	Students know how to identify and critically evaluate information in data, tables, and graphs.																			
		N.S.A.2	Students know how to critically evaluate information to distinguish between fact and opinion.																			
		N.S.A.3	Students know different explanations can be given for the same evidence.																			
		N.S.A.4	Students know how to design and conduct a controlled experiment.																			
		N.S.A.5	Students know how to use appropriate technology and laboratory procedures safely for observing, measuring, recording, and analyzing data.																			
		N.S.A.6	Students know scientific inquiry includes evaluating results of scientific investigations, experiments, observations, theoretical and mathematical models, and explanations proposed by other scientists.																			
		N.S.A.7	Students know there are multiple methods for organizing items and information.																			
Science, Technology, and Society (Nature of Science Unifying Concept B)	Students understand the interactions of science and society in an ever-changing world.	N.S.B.2	Students know scientific knowledge is revised through a process of incorporating new evidence gained through on-going investigation and collaborative discussion.																			
Forces and Motion (Physical Science Unifying Concept B)	Students understand that position and motion of an object result from the net effect of the different forces acting on it.	P.S.B.1	Students know the effects of balanced and unbalanced forces on an object's motion.																			
		P.S.B.2	Students know electric currents can produce magnetic forces and magnets can cause electric currents.																			
		P.S.B.3	Students know every object exerts gravitational force on every other object, and the magnitude of this force depends on the mass of the objects and their distance from one another.																			
Energy (Physical Science Unifying Concept C)	Students understand transfer of energy	P.S.C.2	Students know vibrations (sounds, earthquakes) move at different speeds in different materials, have different wavelengths, and set up wave-like disturbances that spread away from the source uniformly.																			
		P.S.C.3	Students know physical, chemical, and nuclear changes involve a transfer of energy.																			
		P.S.C.4	Students know energy cannot be created or destroyed, in a chemical or physical reaction, but only changed from one form to another.																			
		P.S.C.6	Students know electrical circuits provide a means of transferring electrical energy to produce heat, light, sound, and chemical changes.																			