

## Tennessee State Science Standards Correlation

		Inquiry Investigations™ Physical Science Series I - 1013060																			
Standard Topic	Learning Expectation(s)	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
Physical Science	14.1 Identify and describe characteristics of waves																				
	14.2 Understand the differences between heat and temperature																				
	14.3 Understand the basic principles of electricity.																				
	14.4 Understand that one form of energy can be transformed into another form of energy.																				
	14.5 Understand the nature of light, including the electromagnetic spectrum.																				

## Tennessee State Science Standards Correlation

		Inquiry Investigations™ Physical Science Series II - 1013061																		
Standard Topic	Learning Expectation(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
Physical Science	14.1 Identify and describe characteristics of waves																			
	14.3 Understand the basic principles of electricity.																			
	14.4 Understand that one form of energy can be transformed into another form of energy.																			
	11.1 Distinguish between speed and velocity.																			
	11.2 Demonstrate an understanding of Newton's three laws of motion.																			
	11.3 Identify factors that influence gravitational force between objects.																			
	11.4 Identify simple machines and their uses.																			