Niagara Falls City School District

630 66th Street, Niagara Falls, NY 14304

Science - Grade 6 - 31-40 Weeks

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NYS Performance Indicators	Objectives	Text Resources	Resources (Suggested Activities)	Cross-Curriculum Connections	Assessment Items
	Describe situations that support the principle of conservation of energy.				
	Essential Question / Focus 4.5a and 4.5b: 1. How does energy change form without being created or destroyed? (conservation of energy)		Energy Kids(WEB) Engineering-interact (WEB)		

MST4.I. PS4E Students describe situations that support the principle of conservation of energy.	4.5a Energy cannot be created or destroyed, but only changed from one form into another	Review from 5th grade book Motion, Forces, and Energy pp. 132-137	Forces and Motions Simulations (WEB) - Self Check Quiz: What is Energy (WEB)		13, 14
MST4.I. PS4E Students describe situations that support the principle of conservation of energy.	4.5b Energy can change from one form to another, although in the process some energy is always converted to heat. Some systems transform energy with less loss of heat than others.	Review from 5th grade book Motion, Forces, and Energy pp. 132–137 Waves, Sound and Light Book p. 66	Kids Saving Energy (WEB) Self Check Quiz: Energy Transformations Self Check Quiz: Sources of Energy Standardized Test Practice: EnergyEnergy Feature Links (WEB) Concept Animation: Energy(WEB)		

		Observe and describe the properties of sound, light, magnetism, and electricity				
MST4.I. PS4D	Students observe and describe the properties of sound, light, magnetism, and electricity.	4.4a Different forms of electromagnetic energy have different wavelengths. Some examples of electromagnetic energy are microwaves, infrared light, visible light, ultraviolet light, X-rays, and gamma rays.	Ch 1: Waves pp. 8–17 Ch 3: Electromagnetic Waves pp. 66-79	Activity: Geographic Waves p. 15 Light Energy Webquest (WEB) Self Check Quiz: What are Waves Self Check Quiz: Wave Properties Self Check Quiz: Wave Behavior Self Check Quiz: Using Mirrors and	Science and Social: Investigate Earthquakes and Seismic Waves	12, 15, 16, 21, 34

Lenses

Self Check Quiz: Electromagnetic Waves

Self Check Quiz: Electromagnetic Spectrum

Self Check Quiz: Using Electromagnetic WavesStandardized Test Practice: WavesStandardized Test Practice: Electromagnetic WavesWaves Featue Links (WEB)Brain Pop: Waves (VIDEO)

Interactive Waves (WEB)

Concept Animation: How Radar Works

				(WEB)		
	Essential Question / Focus 4.4b: **1. What is light?** **2. What are the properties of light?** **3. How are different forms of light used?**			Physics Lesson - Reflection and Refraction(WEB)		
MST4.I. PS4D Students observe and describe the properties of sound, light, magnetism, and electricity.	4.4b Light passes through some materials, sometimes refracting in the process. Materials absorb and reflect light, and may transmit light. To see an object, light from that object, emitted by or reflected from it, must enter the eye.	Ch 1: Waves p. 19–27 Ch 4: Light, Mirrors, and Lenses p. 94-118	Lab: Prisms of Light p. 80 Activity: Observing Colors in the Dark p. 97 Gr. 6 40-Week Lab Assess.pdf How We See Things (WEB) Self Check Quiz: Properties of Light Self Check Quiz:		17, 18, 19, 20, 22, 23, 35, 36

			Refraction and Lenses Self Check Quiz: Reflection and MirrorsStandardized Test Practice: Light, Mirrors,and Lenses Light, Mirrors and Lenses Feature Links (WEB) Brain Pop: Light (VIDEO) Concept Animations: Light, Mirrors, and Lenses (WEB)		
	Essential Question / Focus 4.4c and 4.4d: **1. What is sound?** **2. What are the properties of sound?**		Self Check Quiz: What is sound Self Check Quiz: Sound/Music		

MST4.I. PS4D Students observe and describe the properties of sound, light, magnetism, and electricity.	4.4c Vibrations in materials set up wave-like disturbances that spread away from the source. Sound waves are an example. Vibration waves move at different speeds in different materials. Sound cannot travel in a vacuum.	Ch. 2: Sound pp. 36-59	Lab: Comparing and contrasting Sounds p. 38 Activity: Water Doppler Waves p. 43 Lab: Observe and Measure Reflection of Sound p. 46 Standardized Test Practice: Sound Sound Feature Links (WEB)		24, 25, 26, 27, 28, 29, 30, 33
MST4.I. PS4D Students observe and describe the properties of sound, light, magnetism, and electricity.	4.4d Electrical energy can be produced from a variety of energy sources and can be transformed into almost any other form of energy.				

					Gr. 6 Report Card Objectives.pdf

Last updated: 12/3/2010

Energy	Light Energy	Sound Energy
Energy Energy Transformation Conservation of Energy Heat Conduction Convection Electromagnetic Energy Radiation	Light Light Energy Visible Light Ultraviolet Light Infrared Light Transmission Reflection Refraction Absorption	Sound Sound Wave Vibration Pitch Echo Doppler Effect Decibel