

		complete EM circuit; complete EM Spectrum Diagram; discuss light interactions with matter - reflection, refraction, diffraction, color addition and subtraction; watch videos - How a TV Works in Slow Motion, Original Double Slit Experiment; complete EM graded assignment.				energy. 15. Analyze & interpret data from experiments to determine how various factors affect energy transfer as measured by temperature. 16. Apply the law of conservation energy to develop arguments supporting the claim that when the kinetic energy of an object changes, energy is transferred to or from the object.
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GRAY

COURSE: 8th Grade ADV & GEN Science **TEACHER:** Bette Cobb **PERIODS:** 5

	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
T U E S 3 - 2 3	<p>Demonstrate knowledge of electricity and magnetism.</p> <p>Describe what constitutes a wave.</p> <p>Describe the parts of a wave.</p> <p>Describe the properties of a wave.</p> <p>Differentiate between transverse and longitudinal waves.</p> <p>Differentiate between mechanical and electromagnetic waves.</p>	<p>GEN BR: Complete series & parallel questions</p> <p>ADV BR: Complete series & parallel questions</p> <p>Students will:</p> <p>GEN: Complete Electricity graded assignment; complete Magnetism graded assignment; complete Bill Nye Waves video sheet; complete Waves & Wave Properties guided notes using powerpoint; watch Magic School Bus video - Sound; complete Wave Circuit.</p> <p>ADV: Complete Ohm's Law practice; Electricity & Magnetism articles; complete Bill Nye Waves video; complete Waves & Wave Properties</p>	<p>Electricity graded assignment</p> <p>Magnetism graded assignment</p> <p>Bill Nye - Waves video & worksheet</p> <p>Waves & Wave Properties guided notes & PPT</p> <p>Magic School Bus Video - Sound</p> <p>Wave Circuit</p> <p>Ohm's Law practice</p>	<p>Finish any unfinished classwork</p>	<p>Graded assignments & participation</p>	<p>ACOS:</p> <p>13. Create & analyze graphical displays of data to illustrate the relationships of kinetic energy to the mass and speed of an object.</p> <p>14. Use models to construct an explanation of how a system of objects may contain varying types and amounts of potential energy.</p> <p>15. Analyze & interpret data from experiments to determine how various factors affect energy transfer as measured by temperature.</p> <p>16. Apply the law of conservation energy to develop arguments supporting the claim that when the kinetic energy of an object changes, energy is transferred to or from the object.</p>

		guided notes using powerpoint; watch Magic School Bus video - Sound; complete Wave Circuit; complete Electricity & Magnetism graded assignments for homework.				
THURSDAY	Describe the electromagnetic spectrum in terms of wavelength and frequency. Describe uses and dangers of electromagnetic spectrum waves. Describe light interactions with matter.	GEN BR: Complete wave questions. ADV BR: Complete wave questions. Students will: GEN & ADV: Complete EM Spectrum guided notes using powerpoint; complete EM circuit; complete EM Spectrum Diagram; discuss light interactions with matter - reflection, refraction, diffraction, color addition and subtraction; watch videos - How a TV Works in Slow Motion, Original Double Slit Experiment; complete EM graded assignment.	EM Spectrum guided notes & PPT EM Circuit EM Spectrum Diagram EM Graded assignment	Finish any unfinished classwork	Schoology assignments; participation	ACOS: 13. Create & analyze graphical displays of data to illustrate the relationships of kinetic energy to the mass and speed of an object. 14. Use models to construct an explanation of how a system of objects may contain varying types and amounts of potential energy. 15. Analyze & interpret data from experiments to determine how various factors affect energy transfer as measured by temperature. 16. Apply the law of conservation energy to develop arguments supporting the claim that when the kinetic energy of an object changes, energy is transferred to or from the object.