

GRAY

COURSE: 8th Grade ADV & GEN Science		TEACHER: Bette Cobb		PERIODS: 5		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
T U E S 4 - 2 O	<p>Describe how a light wave travels.</p> <p>Describe amplitude, frequency, and speed of light waves.</p> <p>Describe how matter affects light interactions.</p> <p>Differentiate between reflection, refraction, diffraction, and interference.</p> <p>Describe how color is seen.</p> <p>Differentiate between color addition and color subtraction.</p>	<p>GEN BR: Complete sound questions</p> <p>ADV BR: Complete sound questions</p> <p>Students will:</p> <p>GEN: Watch Magic School Bus video - Light; complete Doodle Notes on Light (reflection, refraction, diffraction, and interference), complete Doodle Notes - Light & Matter (absorption, transmission); demonstrate types of matter & how it affects light interactions; watch What is Color? Video; discuss primary colors of light & pigments; demonstrate Color Addition Physics Classroom Simulation; complete Light, Matter, & Color Content Practice B, and Key Concept Builder.</p> <p>ADV: Complete Checkpoint 7.1, watch Magic School Bus video - Light; complete Doodle Notes on Light (reflection, refraction, diffraction, and interference), complete Doodle Notes - Light & Matter (absorption, transmission); demonstrate types of</p>	<p>Magic School Bus video - Light</p> <p>Doodle Notes - Light</p> <p>Doodle Notes - Light & Matter</p> <p>Matter Demo</p> <p>What is Color? Video - Physics in Motion</p> <p>Physics Classroom simulation - Color Addition</p> <p>Light, Matter, & Color Content Practice B & Key Concept Builder</p>	<p>Finish any unfinished classwork</p>	<p>participation, practice worksheets</p>	<p>ACOS</p> <p>17. Create & manipulate a model of a simple wave to predict & describe the relationships between wave properties.</p> <p style="padding-left: 20px;">a. Analyze & interpret data to illustrate an electromagnetic spectrum.</p> <p>18. Use models to demonstrate how light & sound waves differ in how they are absorbed, reflected, & transmitted through different types of media.</p> <p>19. Integrate qualitative information to explain that common communication devices use electromagnetic waves to encode & transmit information.</p>

		matter & how it affects light interactions; watch What is Color? Video; discuss primary colors of light & pigments; demonstrate Color Addition Physics Classroom Simulation; complete Color Addition Practice sheet, Content Practice B, and Key Concept Builder.				
THUR 4-22	Describe how communication occurs using the electromagnetic spectrum. Review wave speed calculations. Differentiate between light and sound wave characteristics. Review the electromagnetic spectrum. Complete study guide for waves test.	GEN BR: Complete light questions. ADV BR: Complete light questions. Students will: GEN: Read Wireless Communication article & answer questions; complete Wave Speed Equation Practice sheet; complete Light or Sound Waves activity; complete Waves & Electromagnetic Spectrum Worksheet; complete Waves Circuit; complete Waves Study Guide. ADV: Complete Checkpoint 7.2; read Wireless Communication article & answer questions; complete Electromagnetic Spectrum Activity; complete Light or Sound Waves activity; complete Waves - Speed & Frequency Word Problems.	Wireless Communication article Waves Speed Equation Practice sheet Light or Sound Waves activity Waves & Electromagnetic Spectrum Worksheet Waves Circuit Waves Study Guide Checkpoint 7.2 Electromagnetic Spectrum Activity Waves - Speed & Frequency Word Problems	Study for Test next Wednesday.	Participation; Checkpoint	ACOS 17. Create & manipulate a model of a simple wave to predict & describe the relationships between wave properties. a. Analyze & interpret data to illustrate an electromagnetic spectrum. 18. Use models to demonstrate how light & sound waves differ in how they are absorbed, reflected, & transmitted through different types of media. 19. Integrate qualitative information to explain that common communication devices use electromagnetic waves to encode & transmit information.