

WEEK OF February 17th-21st, 2025

COURSE: 8th GradeGeneral/ ADV Science		TEACHER: Turner		PERIODS: 1, 3, 4, 5, 6		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
MON	President's Day	President's Day	President's Day	President's Day	President's Day	President's Day
	Define and describe work. Differentiate between work and not work examples. Calculate work done by an object. Define and describe power. Calculate power exerted by an object. Differentiate between work and power. Describe how work and power can be changed.	GEN BR: Make a new title page ADV BR: Make a new title page Students will: GEN: Finish title page & table of contents for energy unit; complete vocabulary Ch. 3 Lesson 1 & Ch. 5 Lesson 2; complete Work & Power Guided notes using PPT; begin Work & Power Practice problems on back.	McGraw-Hill textbook Work & Power Guided notes & PPT Work & Power Practice problems E3/A+ Unit 6 notes What is Work? Article Professor Dave Explains: Work & Energy video	Finish any unfinished classwork GEN: Review for Work & Power Vocab Quiz Thursday	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

		<p>ADV: Finish title page & table of contents for Unit 6; discuss Unit 6 notes p.7; read What is Work? Article & answer questions; watch video - Professor Dave Explains: Work & Energy; watch Crash Course video - Work & Power; complete Work Exit Ticket on Schoology.</p>	<p>Crash Course video - Work & Power</p> <p>Work Exit Ticket</p>			<p>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>
<p>T</p> <p>U</p> <p>E</p> <p>S</p>	<p>Define and describe work.</p> <p>Differentiate between work and not work examples.</p> <p>Calculate work done by an object.</p> <p>Define and describe power.</p> <p>Calculate power exerted by an object.</p> <p>Differentiate between work and power.</p> <p>Describe how work and power can be changed.</p>	<p>GEN BR: Work questions</p> <p>ADV BR: Work questions</p> <p>Students will:</p> <p>GEN: Finish Work & Power practice problems; watch video - Professor Dave Explains: Work & Energy; watch Crash Course video - Work & Power; complete Work & Power lab.</p> <p>ADV: Complete Checkpoint 6.5; complete Work & Power Practice Problems; complete Work & Power Lab; complete Work & Power Maze.</p>	<p>Professor Dave Explains: Work & Energy video</p> <p>Crash Course video - Work & Power</p> <p>Work & Power Lab</p> <p>E3/A+ Checkpoint 6.5</p> <p>Work & Power Practice Problems</p> <p>Work & Power Maze</p>	<p>Finish any unfinished classwork</p> <p>GEN: Review for Work & Power Quiz Thursday</p>	<p>Participation; lab; checkpoint</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>
<p>W</p> <p>E</p> <p>D</p>	<p>Differentiate between potential & kinetic energy.</p> <p>Identify and describe different types of energy.</p>	<p>GEN BR: Power questions</p> <p>ADV BR: Power questions</p>	<p>Work & Power lab</p> <p>Work & Power Quiz</p> <p>Energy Guided</p>	<p>Finish any unfinished classwork</p>	<p>Participation; checkpoint</p>	<p>ACOS:</p> <p>13. Create & analyze graphical displays of data to illustrate the relationships of kinetic energy to the mass and</p>

	<p>Sort different energies into the two major categories of kinetic & potential energy.</p> <p>Calculate potential and kinetic energy of an object.</p>	<p>Students will:</p> <p>GEN: Finish Work & Power lab; complete Work & Power Quiz; complete Energy Guided notes using PPT.</p> <p>ADV: Complete Checkpoint 6.1; discuss Unit 6 notes pp.1-6 - potential & kinetic energy & types of each; complete Energy Types A & B worksheet; complete GPE Word Problems (A); complete KE Word Problems (A).</p>	<p>notes & PPT</p> <p>E3/A+ Checkpoint 6.1</p> <p>E3/A+ Unit 6 notes</p> <p>Energy Types A & B</p> <p>GPE Word Problems (A)</p> <p>KE Word Problems (A)</p>			<p>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>
<p>T</p> <p>H</p> <p>U</p> <p>R</p> <p>S</p>	<p>Differentiate between potential & kinetic energy.</p> <p>Identify and describe different types of energy.</p> <p>Sort different energies into the two major categories of kinetic & potential energy.</p> <p>Calculate potential and kinetic energy of an object.</p> <p>Discuss how energy is conserved.</p> <p>Draw energy transformation diagrams.</p> <p>Identify energy transformations that occur in diagrams.</p> <p>Observe changes in energy and that the total energy remains constant.</p>	<p>GEN BR: Energy questions</p> <p>ADV BR: Energy questions</p> <p>Students will:</p> <p>GEN: Finish Energy Guided notes; complete KE/PE Calculations & Energy Crossword.</p> <p>ADV: Complete KE/PE Calculations & Energy Crossword; discuss Unit 6 notes - Law of Conservation of Energy & energy transformations or conversions; demonstrate energy transformations; complete Energy Transfer Diagrams Worksheet.</p>	<p>Energy Guided notes</p> <p>KE/PE Calculations & Energy Crossword</p> <p>E3/A+ Unit 6 notes</p> <p>Energy Transfer Diagrams Worksheet</p>	<p>Finish any unfinished classwork</p>	<p>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>

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