Name: Kevin Woolridge		Grading Quarter: Q1		Week Beginning: W7		
School Year: 2023			•			
			Subject: Conceptual Physics and Engineering		eening	
Monday	Notes:	Objective: Student energy including E Potential and Kine Energy, Machines Sources of Energy problems from the Lesson Overview: • Students a • Power poin potential a demonstra and a simp illuminated electric ge • Power poin Completio	Essential HS.P3U1.6 Collect, analyze, and interpret data regarding the change in motion of an object or system in one dimension, to construct an explanation using Newton's Laws.			
Tuesday	Notes:	 Objective: Students will demonstrate understanding of change in motion including (Impulse Changes, Momentum, Bouncing, Conservation of Momentum, and Collisions) and energy of an object or system in one dimension including (Impulse energy including Energy, Work, Power, Mechanical Energy Potential and Kinetic, Work-Energy Theorem, Conservation of Energy, Machines Efficiency, Recycled Energy, Energy for Life and Sources of Energy) as evidenced by the completion of selected problems from the text and end of unit quiz with 80% accuracy. Lesson Overview: Students are asked to review, Chapter 6 - Momentum and Chapter 7 -Energy. Power point review Exam, Momentum and Energy 			Essential HS.P3U1.6 Collect, analyze, and interpret data regarding the change in motion of an object or system in one dimension, to construct an explanation using Newton's Laws.	
Wednesday	Notes:	 Objective: of the char concepts of or system building ar meters. Lesson Overview: Review of requireme Students v worksheet Brainstorm small grou 	Students will demonstrange in motion and energy of speed, velocity, and acc in one dimension, as evic ad racing a mousetrap ca Mousetrap car lab and L Mousetrap car project, can nts including grading crit vill be provided with the and instructions.	y including concepts of celeration of an object lenced by successfully r for a minimum of 5 ab time/build day. onstraints and project eria. mousetrap car project project ideas with	Essential HS.P3U1.6 Collect, analyze, and interpret data regarding the change in motion of an object or system in one dimension, to construct an explanation using Newton's Laws.	

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	Notes:	Objective: Students will demonstrate their understanding	Essential HS.P3U1.6
		of the change in motion and energy including concepts of	Collect, analyze, and
Thursday		concepts of speed, velocity, and acceleration of an object	interpret data regarding
		or system in one dimension, as evidenced by successfully	the change in motion of
		building and racing a mousetrap car for a minimum of 5	an object or system in one
		meters.	dimension, to construct an
		Lesson Overview: Mousetrap car lab and prototype test day	explanation using
		• Brainstorm concepts and /research project ideas with	Newton's Laws.
		small group	
		 Independent build and testing time during class. 	
		 Students will be able to test their prototype mousetrap 	
		Cars and make modifications as needed to be successful	
		on race day.	
		 Students will be provided with the Mousetrap car race 	
		track and timer.	
		 Students will complete their time trial log due on race day. 	
	Notes:	 Objective: Students will demonstrate their understanding 	Essential HS.P3U1.6
	Notes.	of the change in motion and energy including concepts of	Collect, analyze, and
		concepts of speed, velocity, and acceleration of an object	interpret data regarding
		or system in one dimension, as evidenced by successfully	the change in motion of
L L			an object or system in one
		building and racing a mousetrap car for a minimum of 5 meters.	dimension, to construct an
			explanation using
id		Lesson Overview: Mousetrap car race day	Newton's Laws.
Friday		• Students will compete 8in the Mousetrap car race.	Newton's Laws.
		• Students will be given 3 attempts to complete the 5 Meter	
		race in the fastest time.	
		 Students will be provided with the Mousetrap car race 	
		track and timer.	
		 Students will complete and tun in their race day evaluation 	
		worksheets.	