

Name: Kevin Woolridge		Grading Quarter: Q1	Week Beginning: W6
School Year: 2023		Subject: Conceptual Physics and Engineering	
Monday	Notes:	<ul style="list-style-type: none"> No School 	Essential
Tuesday	Notes:	<p>Objective: Students will demonstrate their understanding of, Newtons laws, as evidenced by the successful completion of an egg drop project and the successful testing at 3 separate heights as defined by the project description and constraints.</p> <p>Lesson Overview:</p> <ul style="list-style-type: none"> Unit Quiz Lab day Project assignment Egg Drop 	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:	<p>Objective: Students will demonstrate their understanding of the change in motion and energy of an object or system in one dimension including Impulse, as evidenced by successfully building racing a mousetrap car for a minimum of 5 meters.</p> <p>Lesson Overview:</p> <ul style="list-style-type: none"> Mousetrap car project introduction, constraints and project requirements including grading criteria. Students will be provided with the mousetrap car project worksheet and instructions. 	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.
Thursday	Notes:	<p>Objective: Students will demonstrate their understanding of change in motion of an object or system in one dimension including Impulse, Impulse Changes, Momentum, Bouncing, Conservation of Momentum, and Collisions as evidenced by the completion of selected problems from the text and end of unit quiz with 80% accuracy.</p> <p>Lesson Overview:</p> <ul style="list-style-type: none"> Students are asked to read Chapter 6, Momentum. Hewitt Video, Momentum Momentum: Newton's 2nd law is rearranged to the form: Impulse = Change in Momentum. A variety of everyday examples, such as bouncing are used to support this impulse-momentum concept. Conservation of momentum is demonstrated with colliding carts on an air track. Power point presentation, Momentum Completion of assigned problems from the text. 	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.

Friday	Notes:	<p>Objective: Students will demonstrate their understanding of 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.</p> <p>Lesson Overview:</p> <ul style="list-style-type: none"> • Students are asked to read Chapter 7, Energy. • Hewitt Video, Energy: Mechanical energy in its potential and kinetic forms is illustrated with demonstrations that include a bouncing dart, a pendulum, and a simple pulley system. The conservation of energy is illuminated using everyday examples and a hand-cranked electric generator. • Power point presentation, energy • Completion of assigned problems from the text. 	<p>Essential HS.P3U1.6</p> <p>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.</p>
--------	--------	---	---