

Name: Kevin Woolridge		Grading Quarter: Q2	Week Beginning: W14
School Year: 2023		Subject: Conceptual Physics and Engineering	
Monday	Notes:	<ul style="list-style-type: none"> <li><b>Objective:</b> Students will demonstrate understanding of physics concepts of conservation of energy, and simple machines as evidenced by completion of labs, and building a Rub Goldberg machine capable of transferring kinetic input through all 5 simple machines and transferring kinetic energy to a neighboring machine.</li> </ul> <b>Lesson Overview.</b> <ul style="list-style-type: none"> <li>Lesson, power point presentation, simple machines.</li> <li>Explore mechanical advantage of wheel and axle systems and develop mathematical model for solving problems involving work and power.</li> <li>Wheel and axle lab.</li> </ul>	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. HS-PS3-3 Design, build, and refine a device that works within given constraints to convert one form of energy into another form of energy.
Tuesday	Notes:	<ul style="list-style-type: none"> <li><b>Objective:</b> Students will demonstrate understanding of physics concepts of conservation of energy, and simple machines as evidenced by completion of labs, and building a Rub Goldberg machine capable of transferring kinetic input through all 5 simple machines and transferring kinetic energy to a neighboring machine.</li> </ul> <b>Lesson Overview.</b> <ul style="list-style-type: none"> <li>Lesson, power point presentation, simple machines.</li> <li>Explore mechanical advantages of pulley systems and develop mathematical model for solving problems involving work and power.</li> <li>Wheel and axle lab.</li> </ul>	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. HS-PS3-3 Design, build, and refine a device that works within given constraints to convert one form of energy into another form of energy.
Wednesday	Notes:	<ul style="list-style-type: none"> <li><b>Objective:</b> Students will demonstrate understanding of physics concepts of conservation of energy, and simple machines as evidenced by completion of labs, and building a Rub Goldberg machine capable of transferring kinetic input through all 5 simple machines and transferring kinetic energy to a neighboring machine.</li> </ul> <b>Lesson Overview.</b> <ul style="list-style-type: none"> <li>Lesson, power point presentation, simple machines.</li> <li>Introduce Rube Goldberg project, Rube Goldberg must except kinetic input from the prior machine and transfer through all 5 simple machines to the next device.</li> </ul>	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. HS-PS3-3 Design, build, and refine a device that works within given constraints to convert one form of energy into another form of energy.

Thursday	Notes:	<ul style="list-style-type: none"> <li>• <b>Objective:</b> Students will demonstrate understanding of physics concepts of conservation of energy, and simple machines as evidenced by completion of labs, and building a Rub Goldberg machine capable of transferring kinetic input through all 5 simple machines and transferring kinetic energy to a neighboring machine.</li> </ul> <p><b>Lesson Overview.</b></p> <ul style="list-style-type: none"> <li>• Lesson, power point presentation, simple machines.</li> <li>• Introduce Rube Goldberg project, Rube Goldberg must except kinetic input from the prior machine and transfer through all 5 simple machines to the next device.</li> <li>• Lab day</li> </ul>	<p>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.</p> <p>HS-PS3-3 Design, build, and refine a device that works within given constraints to convert one form of energy into another form of energy.</p>
Friday	Notes:	<ul style="list-style-type: none"> <li>• <b>Objective:</b> Students will demonstrate understanding of physics concepts of conservation of energy, and simple machines as evidenced by completion of labs, and building a Rub Goldberg machine capable of transferring kinetic input through all 5 simple machines and transferring kinetic energy to a neighboring machine.</li> </ul> <p><b>Lesson Overview.</b></p> <ul style="list-style-type: none"> <li>• Lesson, power point presentation, simple machines.</li> <li>• Introduce Rube Goldberg project, Rube Goldberg must except kinetic input from the prior machine and transfer through all 5 simple machines to the next device.</li> <li>• Prototype Test day.</li> </ul>	<p>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.</p> <p>HS-PS3-3 Design, build, and refine a device that works within given constraints to convert one form of energy into another form of energy.</p>