

Name: Kevin Woolridge		Grading Quarter: Q2	Week Beginning: W15
School Year: 2023		Subject: Conceptual Physics and Engineering	
Monday	Notes:	<ul style="list-style-type: none"> Objective: 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. Lesson Overview. <ul style="list-style-type: none"> Lesson, power point presentation, simple machines. 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. 	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"> Objective: 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. Lesson Overview. <ul style="list-style-type: none"> Lesson, power point presentation, simple machines. 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. Lab day	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"> Objective: 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. Lesson Overview. <ul style="list-style-type: none"> Lesson, power point presentation, simple machines. 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. Prototype Test day. 	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:	<p>Objective: Students will demonstrate understanding of physics concepts of conservation of Heat, Temperature, and Expansion, Heat Transfer, Heat Radiation Heat conduction, including, Temperature and heat are distinguished from each other. The expansion of solids, liquids, and gases. Specific heat capacity leads to the physics of a freezing lake. And radiation is related to Newton's law of cooling. With 80% accuracy aw 3videnced by completion of thermal physics exam.</p> <p>Lesson Overview.</p> <ul style="list-style-type: none"> • <i>Introduction of Thermal physics, solar cooker project</i> • Video, Solar cookers. 	<p>HS-PS3-4</p> <p>Plan and conduct an investigation to provide evidence that the transfer of thermal energy when two components of different temperature are combined within a closed system results in a more uniform energy distribution among the components in the system (second law of thermodynamics).</p>
Friday	Notes:	<p>Objective: Students will demonstrate understanding of physics concepts of conservation of Heat, Temperature, and Expansion, Heat Transfer, Heat Radiation Heat conduction, including, Temperature and heat are distinguished from each other. The expansion of solids, liquids, and gases. Specific heat capacity leads to the physics of a freezing lake. And radiation is related to Newton's law of cooling. With 80% accuracy aw 3videnced by completion of thermal physics exam.</p> <p>Lesson Overview.</p> <ul style="list-style-type: none"> • <i>Introduction of Thermal physics, solar cooker project</i> • Hewitt video, Heat, Temperature, and Expansion: Temperature and heat are distinguished from each other. The expansion of solids, liquids, and gases is compared. A discussion on specific heat capacity leads to the physics of a freezing lake. Demonstrations using liquid nitrogen show the effects of low temperatures. 	<p>HS-PS3-4</p> <p>Plan and conduct an investigation to provide evidence that the transfer of thermal energy when two components of different temperature are combined within a closed system results in a more uniform energy distribution among the components in the system (second law of thermodynamics).</p>