

Physical Science Activities for Year 3 (Week One)

Overarching Concept: Understanding of the Natural Laws as They Apply to Motion, Forces, and Electromechanical Applications

Day 1 (July 13 & Aug. 10)	Day 2 (July 14 & Aug. 11)	Day 3 (July 15 & Aug. 12)	Day 4 (July 16 & Aug. 13)	Day 5 (July 17 & Aug. 14)
Electromechanical Applications				Motion and Forces
<p>Welcome/Introduction Year 2 Report & Sharing Year 3 Project Overview Pre-Assessment Culminating Project</p> <p><i>Experimental observations - electro-mechanical system (Ed)</i> 5.1 A.1-2 Gr.4; 5.1 A.1 Gr.8; 5.7 A.1-2 B.3 Gr.4; 5.7 B.3 Gr.6; 5.7 A.6-7 B.2 Gr.12</p> <p><i>Static Electricity Investigations (Augusto & Ed)</i> 5.1 A.1-3 B.1-2 Gr.4; 5.1 A1-2 B1-3 Gr.8; 5.7 A.2 Gr.4; 5.7 A.4 Gr.12</p> <p><i>Introduction to Electric Circuits- Conductors & Insulators (Augusto &</i></p>	<p><i>Basic electric circuits and the concepts of voltage and current (Ed)</i> 5.1 B1-2 Gr.4; 5.1 B.3 Gr.8; 5.3 C.1 Gr.4; 5.3 C.1 Gr.8; 5.7 B.3 Gr.4; 5.7 B.3 Gr.6; 5.7 A.7 Gr.12</p> <p><i>Designing devices and circuitry that use electricity; EiE An Alarming Idea (Carol & Augusto)</i> 5.1 B.1 Gr.4; 5.7 B.3 Gr.4; 5.7 B.3 Gr.6; 8.2.4 G.3</p> <p>End of the Day Reflection</p>	<p><i>Measuring the force between current carrying wires (Ed)</i> 5.1 B.1-2 Gr.4; 5.1 B.3 Gr.8; 5.3 B.1-2 Gr.4; 5.3 C.1 Gr.8; 5.7 B.3 Gr.6; 5.7 A.6,8 B.2 Gr.12</p> <p><i>PBL using Snap Circuits (Ed & Augusto)</i> 5.1 B.1-2 Gr.4; 5.1 B.3 Gr.8; 5.3 B.1-2 Gr.4; 5.7 B.3 Gr.6; 5.7 A.6,8 B.2 Gr.12</p> <p>End of the Day Reflection</p>	<p><i>Analyzing data using linear regression (Ed)</i> 5.3 D.1 Gr.4; 5.3 D.1,3,4 Gr.8; 5.3 D.1 Gr. 12</p> <p><i>Experiments in Electromagnetic induction (Ed)</i> 5.1 A.1-2 Gr.4; 5.1 A.1 Gr.8; 5.7 B.3 Gr.4; 5.7 B.3 Gr.6; 5.7 A.6-8 B.1-2 Gr. 12</p> <p><i>Comparing Teaching Approaches- PBL & Inquiry (Augusto & Carol)</i></p> <p>End of the Day Reflection</p>	<p><i>Electrical phenomena in the modern research laboratory (Ed)</i> 5.2 A.1 Gr.4; 5.2 A.1-3 B.1-2 Gr. 8;</p> <p><i>Observing, describing, quantifying, and graphing motion of different objects (Augusto & Mercedes)</i> 5.1 B.1-2 Gr.4; 5.3 A.1-3 B.1-2 C.1 D.1 Gr.4; 5.3 D1,3 Gr.8; 5.7 A.1-2 Gr.4; 5.7 A.1-3 Gr.6;</p> <p><i>Design Squad-Rubber Band Car (Augusto & Henry)</i></p> <p><i>Moving liquids and system of variables (Augusto)</i> 5.1 B.1-2 Gr.4; 5.1 B.1-3 Gr.8; 5.7</p>

<i>Carol)</i> 5.1 B.1-2 Gr.4; 5.7 A.2 Gr.4; 5.7 B.1 Gr.12 End of the Day Reflection				A.1-2 Gr.4; 5.7 A.1-3 Gr.6; End of the Day Reflection
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Physical Science Activities for Year 3 (Week Two)

Overarching Concept: Understanding of the Natural Laws as They Apply to Motion, Forces, and Electromechanical Applications

Day 6 (July 20 & Aug. 17)	Day 7 (July 21 & Aug. 18)	Day 8 (July 22 & Aug. 19)	Day 9 (July 23 & Aug. 20)	Day 10 (July 24 & Aug. 21)
Motion and Forces				
<p><i>Laboratory experiences in force and equilibrium; EiE To Get to the Other Side (Carol & Augusto) 5.1 B.1-2 Gr.4; 5.1 B.3 Gr.8; 5.7 A.2 Gr.4; 5.7 A.1-3 Gr.6; 8.2.4 G.3</i></p> <p><i>PBL Lesson Assessment: Using Google Forms (Greg & Augusto)</i></p> <p>End of the Day Reflection</p>	<p><i>Investigations and PBL that demonstrate the relationship between force and work (Vince) 5.1 B.1-2 Gr.4; 5.7 A.1-2 Gr.4; 5.7 A.1-2 Gr.12</i></p> <p><i>Mathematical investigations of force of gravity (pendulum) (Augusto) 5.1 B.1-2 Gr.4; 5.3 A.1-2 B.1-2 C.1 D.1 Gr.4; 5.7 A.1-2 Gr.4; 5.7 A.1, 3 B.2 Gr.12</i></p> <p><i>Internet resources in motion and forces (Carol) 5.7 A.1-2 Gr. 4; 8.1.4.C.1.4; 8.1.4.F.1</i></p> <p>End of the Day Reflection</p>	<p><i>Exploring Newton's Laws through Investigations (Linda) 5.1 B.1-2 Gr.4; 5.3 A.1 C. 1 Gr.4; 5.7 A. 1-2 Gr. 4</i></p> <p><i>Investigations with magnets (Carol) 5.1 B.1-2 Gr.4; 5.7 A.2 Gr. 4</i></p> <p>End of the Day Reflection</p>	<p><i>Exploring Newton's Laws through Investigations (Linda) continued 5.1 B.1-2 Gr.4; 5.3 A.1 C. 1 Gr.4; 5.7 A. 1-2 Gr. 4</i></p> <p><i>Teacher Work Session- PBL Lessons & Portfolio (Linda, Carol, & Augusto)</i></p> <p>End of the Day Reflection</p>	<p>Project presentation</p>

