August | September | October | November | December | January | February | March | April | May | June | July | Show All

Powers, Cadena

Physical Science

March

Work and Machines

Essential Questions	Content	Skills	Assessments	Lessons	Standards
	What is Work? Calculating Work What is Power? Calculating Power What is a Machine? Mechanical Advantage Types of Simple Machines Inclined Plane, Wedge, Screws, Levers, Wheel and Axle, Pulley	Calculate the work done on an object. Define and calculate power. Calculate the mechanical advantage of a machine. Describe the 6 kinds of simple machines. Calculate the IMA of each type of simple machine	Unit Test 3/31/2011		9-12.P.2.3 - Students are able to relate concepts of force, distance, and time to the quantitative relationships of work, energy, and power.

T2D Newtons Laws of Motion

Essential Questions	Content	Skills	Assessments	Lessons	Standards
How do Newton's Laws affect everyday motion? Can the motion of any object be predicted?	Newton' First Law Newton's Second Law Newton's Third Inertia Friction Gravity Momentum SMART Response Flip Cam Wiki spaces Google Docs Achievement Series MovieMaker Glogster	Determine whether a force is balanced or unbalanced. Predict the affects of friction on a moving object Newtons Laws of Motion	Newton's Laws Pre-Test 3/4/2011 Newton's Laws Senteo Quiz 3/25/2011 Newton's Laws Unit Exam 4/1/2011 Newton's Laws Glogster Project 4/1/2011	Pretest: Achievement Series (C) Day 1- Newton's First Law of Motion (I) Day 2- Virtual Physical Science, LAB 28 Newton's First Law (D) Day 3: Newton's Second Law of Motion (I) Day 4: Virtual Physical Science Lab 29, Newton's Second Law (D) Day 5: Newton's Third Law of Motion (I) Day 6: Newtons Third Law Virtual Physical Science Lab 30 (D) Day 7-8: Introduction to Project Wikipage/ Research (I) Day 9: Design Plan/ Google Sketch up (I) Day 10-12: Building	9-12.P.2.1 - Students are able to apply concepts of distance and time to the quantitative relationships of motion using appropriate mathematical formulas, equations, and units. 9-12.P.2.2 - Students are able to predict motion of an object using Newton's Laws. 9-12.IL.1.0 - Students use technology to locate and acquire information. 9-12.IL.2.1 - Independently evaluates the accuracy, relevance, appropriateness, comprehensiveness, and bias of electronic information sources. 9.R.1.1 - Students can apply example clues to extend vocabulary. 9.R.2.2 - Students can read fluently to comprehend grade-level text. 2.CC.1 - Articulate thoughts and ideas clearly and effectively through speaking and writing 2.CC.2 - Demonstrate ability to work effectively with diverse teams 2.CC.3 - Exercise flexibility and willingness to be helpful in making necessary compromises to accomplish a common goal 2.CC.4 - Assume shared responsibility for collaborative work

					Mousetrap Cars (R) Day 13: Flip Cam/ Update Wiki page (I) Day 14: Google Docs Spreadsheet (I) Day 15: Mousetrap Car Trial #2 (R) Day 16-18: MovieMaker/Glogster (I) Day 19: Unit Exam	