








Technology-Connected Lesson Plan

Title:	Newton's Laws
Grade Levels:	5-8
Curriculum Areas:	🖥️ Science
Measurable Objectives:	<p>🖥️ Lesson Objectives:</p> <ul style="list-style-type: none"> 🖥️ TSW create a learning web of Newton's Laws using Kidspiration. 🖥️ TSW write a summary of Newton's Laws using Kidspiration.
LA Content Standards:	<ul style="list-style-type: none"> 🖥️ PS-M-B3 - Understanding that, when an object is not being subjected to a force, it will continue to move at a constant speed and in a straight line. 🖥️ PS-M-B4 - Describing how forces acting on an object will reinforce or cancel one another, depending upon their direction and magnitude. 🖥️ PS-M-B5 - Understanding that unbalanced forces will cause changes in the speed or direction of an object's motion.
Grade Level Expectations (GLE)	<ul style="list-style-type: none"> • Identify forces acting on all objects (PS-M-B3) • Draw and label a diagram to represent forces acting on an object (PS-M-B4) • Determine the magnitude and direction of unbalanced (i.e., net) forces acting on an object (PS-M-B4)
K12 Educational Technology Standards:	<p>🖥️ Technology Guidelines:</p> <ul style="list-style-type: none"> • Technology Communication Tools • Technology Productivity Tools • Technology Research Tools • Basic Operations and Concepts <p>🖥️ Technology Performance Indicators</p> <ul style="list-style-type: none"> • Identify, explain, and effectively use input, output and storage devices of computers and other technologies (e.g.,

	<p>keyboard, mouse, scanner, adaptive devices, monitor, printer floppy disk, hard drive).</p> <ul style="list-style-type: none"> • Use accurate and developmentally appropriate terminology (e.g., cursor, software, hardware, pull down menu, window, disk drive, hard drive, CD-ROM, laser disc) when referring to technology. • Use a variety of developmentally appropriate resources and productivity tools (e.g., logical thinking programs, writing and graphic tools, digital cameras, graphing software) for communication, presentation, and illustration of thoughts, ideas, and stories (e.g., signs, posters, banners, charts, journals, newsletters, and multimedia presentation.) <p> Use technology tools (e.g., publishing, multimedia tools, and word processing software) for individual and for simple collaborative writing, communication, and publishing activities for a variety of audiences. (1,3)</p>
Technology Connection:	 Kidspiration, printer, scan converter, TV
Procedures:	<p>Introduction:</p> <ol style="list-style-type: none"> 1. TW review Newton's Laws with students by playing a matching game at board. (There will be index cards with terms from each law -the students will take turns placing the cards under the correct laws.) <p>Procedures:</p> <ol style="list-style-type: none"> 2. TTW model how to create learning maps on Kidspiration. TTW model for students how to use all tools used with program. 3. TSW create their maps on Kidspiration. TSW use their maps to write 3 paragraphs describing Newton's Laws. 4. TSW print their maps and paragraphs. to edit paragraphs. <p>Closure:</p> <ol style="list-style-type: none"> 5. TSW use the teachers media center to present their maps and paragraphs to the rest of the class.
Materials:	 Index cards for matching game, Kidspiration, computer, printer, computer media center
Assessment:	 completed "Learning Map", completed paragraphs, teacher observation
Teacher's Name:	 Melissa M. Ryan

School:



Loranger Middle, West Side Middle