


























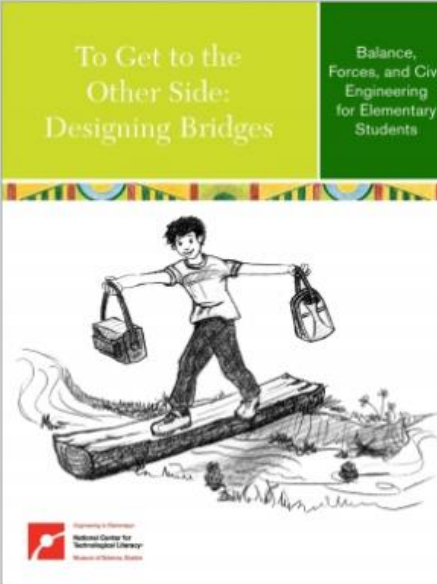
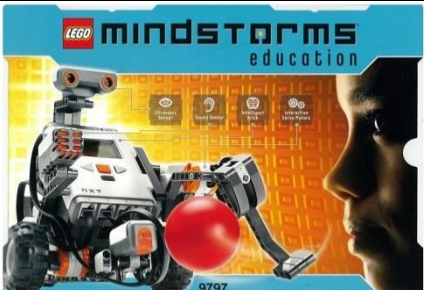

Picture (If available)	Name	Quantity	Description
	BigEye 2x Magnifying Lens	8	<p>This portable, handheld, 2x magnifier features a 5-inch diameter acrylic lens. Explore close observation with this fun, basic tool.</p> <p style="text-align: right;">General</p>
	Compass	9	<p>This basic, handheld compass will aid in the understanding of cardinal directions and/or magnetism.</p> <p style="text-align: right;">General</p>
	1,000 mL Beaker, plastic 250 mL Beaker, plastic 50 mL Beaker, plastic	8 9 12	<p style="text-align: right;">General</p>
	Filter Paper: 12.5 cm Whatman (box) Filter Paper: 7 cm S&S (box)	1 1	<p style="text-align: right;">General</p>
	Box Magnifiers, small	90	<p style="text-align: right;">General</p>
	Kitchen Timer	1	<p style="text-align: right;">General</p>
	Microscope slides- Blanks (box) Microscope Slides-Wells (box) coverslips	2 1 1	<p style="text-align: right;">General</p>
	Petri dishes, plastic	17	<p style="text-align: right;">General</p>




	<p>Various Chemical Test Kits: pH Test Kit – High Range pH Test Kit – Wide Range Chlorine Test Kit Chloride Test Kit Iron Test Kit Dissolved Oxygen & pH Test Kit Manganese Test Kit Nitrate Test Kit Phosphate Test Kit Sulfate Test Kit</p>	<p>1 1 1 1 4 1 2 1 1 1</p>	<p>General</p>
	<p>pH Testing Probes</p>	<p>6</p>	<p>General</p>
	<p>Personal Microcentrifuge</p>	<p>1</p>	<p>General</p>
	<p>Flip Cameras</p>	<p>4</p>	<p>General</p>
	<p>Digital Camera</p>	<p>4</p>	<p>General</p>
	<p>Video Camera</p>	<p>1</p>	<p>General</p>
	<p>Pocket Projector – 3M</p>	<p>1</p>	<p>General</p>





	<p>Biology Vernier LabQuest Starter Packages with Biology with Vernier Book</p>	<p>1</p>	<p><i>Biology with Vernier</i> addresses the fundamentals of a high school or college general biology course with 31 experiments that include cell respiration, photosynthesis, membrane diffusion, osmosis, human physiology, and more. The instructor information section included for each experiment contains tips for successful completion, reagent preparation information, and sample data. This kit includes Vernier LabQuest interface unit, steel temperature probe, hand-grip heartrate monitor, gas pressure sensor, CO2 gas sensor.</p> <p style="text-align: right;">Biology; 5,6</p>
	<p>Creature Peeper Table-top Magnifier</p>	<p>8</p>	<p>This periscope-style viewer provides 3X magnification of an insect (or other small item) placed inside. The additional reflecting mirror allows the viewer to observe the underside of the object as well.</p> <p style="text-align: right;">Biology</p>
	<p>Forensic DNA Fingerprinting Kit</p>	<p>1</p>	<p>Using real DNA as evidence, your students play the role of crime scene investigator to figure out for themselves “Who done it?”</p> <p style="text-align: right;">Biology; 6</p>
	<p>GMO Investigator Kit</p>	<p>1</p>	<p>Students engage in a complete investigation in which they gather sample food items from the grocery store, extract DNA from the samples, amplify the DNA using polymerase chain reaction (PCR), and use agarose gel electrophoresis to identify the presence or absence of amplified GMO sequences</p> <p style="text-align: right;">Biology; 6</p>
	<p>Thermocycler</p>	<p>1</p>	<p>Most commonly used to amplify segments of DNA via PCR (polymerase chain reaction). An invaluable tool in studying DNA and forensics!</p> <p style="text-align: right;">Biology</p>





	PCR Tube Holder – 96 Well	6	Biology
	Electrophoresis System Electrophoresis Power Pack	6 1	Biology
	Gel Tray and Stain	1	Biology, 6
	Mini PROTEAN [®] System – Tetra Cell	1	The versatile, easy-to-use Mini-PROTEAN Tetra vertical electrophoresis cell is ideal for protein electrophoresis with Bio-Rad precast polyacrylamide mini gels Biology
	Micropipettes and tips		Biology
	Compound Microscope	10	Allows 40x-400x magnification of objects on a slide. Biology; 6




	<p>Accu-scope Dissecting Microscopes</p>	<p>2</p>	<p style="text-align: right;">Biology; 6</p>
	<p>Bausch & Lomb Dissecting Microscopes</p>	<p>8</p>	<p style="text-align: right;">Biology; 6</p>
	<p>Magiscope Microscope</p>	<p>8</p>	<p>This simple, versatile microscope can be used indoors or outside. No electricity is required, and any variety of objects or slides can be placed on the viewing stage.</p> <p style="text-align: right;">Biology; 1,3</p>
	<p>Beginner's Biology Slide Set by Carolina</p>		<p>50 pre-made slides with everything from insects and plant slices to muscle tissue and microorganisms.</p> <p style="text-align: right;">Biology</p>
	<p>Engineering is Elementary Curriculum Guide and Kits</p> <p>A Long Way Down: Designing Parachutes A Slick Solution: Cleaning an Oil Spill A Stick in the Mud: Evaluating a Landscape A Sticky Situation: Designing Walls</p>	<p>1 for each topic</p> <p>20 different topics in</p>	<p>Each STEM-themed binder and kit serves as a teacher's guide to leading engineering lessons. Topics range from building a bridge to designing a solar oven. Get more information on the specific themes here: http://www.eie.org/eie-curriculum/curriculum-units</p>



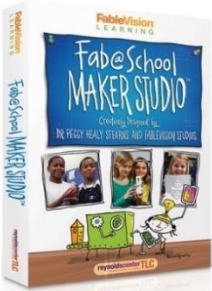

	<p>A Work in Progress: Improving Play Dough Process</p> <p>An Alarming Idea: Designing Alarm Circuits</p> <p>Catching the Wind: Designing Windmills</p> <p>Just Passing Through: Designing Model Membranes</p> <p>Lighten Up: Designing Lighting Systems</p> <p>Marvelous Machines: Making Work Easier</p> <p>No Bones About It: Designing Knee Braces</p> <p>Now You're Cooking: Designing Solar Ovens</p> <p>Solid as a Rock: Replicating an Artifact</p> <p>Sounds like fun: Seeing Animal Sounds</p> <p>Taking the Plunge: Designing Submersibles</p> <p>The Attraction is Obvious: Designing a Maglev System</p> <p>The Best of Bugs: Designing Hand Pollinators</p> <p>Thinking Inside the Box: Designing a Plant Package</p> <p>To Get to the Other Side: Designing Bridges</p> <p>Water, Water Everywhere: Designing Water Filters</p>	<p>total</p> <p>OUT</p> <p>OUT</p> <p>OUT</p> <p>OUT</p>	<p style="text-align: right;">Engineering</p>
	<p>LEGO Mindstorms Education Robotics Kit</p>	<p>8 +1 partial +extra lego parts</p>	<p>This set enables students to build and program real-life robotic solutions. Best for ages 8 and up.</p> <p style="text-align: right;">Engineering</p>
	<p>Tinker Kits from Boston Children's Museum</p>	<p>10</p>	<p>Boxes filled with miscellaneous objects that allow students to "tinker", explore and build to strengthen their creativity, motor skills, problem solving, team work, and a number of other skills. Designed for preK-2</p> <p style="text-align: right;">Engineering; Prek-2</p>



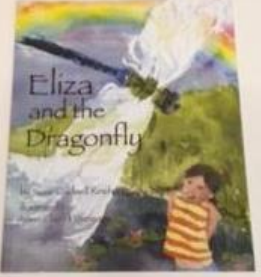
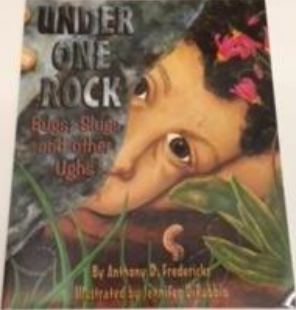
	<p>Robot Tin Can Kit</p>	<p>1</p>	<p>The 4M Tin Can Robot teaches the value of recycling by repurposing a used can into a fun and functional robot. No special tools or knowledge required; the kit contains detailed instructions and all the necessary parts. Just add a used soda pop can and let the fun begin. Recommended for ages 8 years and up.</p> <p style="text-align: right;">Engineering</p>
	<p>Science in a Nutshell by Delta: Earth and Sun Class Packs</p> <p>Kit comes with instructor guide and necessary materials</p>	<p>1</p>	<p>Make scale models to show relative size and distance. Study motion and position of objects in the solar system. Observe patterns of movement of objects in the sky. Developed for grades 2 to 6.</p> <p style="text-align: right;">Astronomy; 1,5</p>
	<p>Science in a Nutshell by Delta: Space Science Cluster</p> <p>Kit comes with instructor guide and necessary materials</p>	<p>1</p>	<p>A challenging opportunity for students working in small groups to explore and investigate the mysteries of our solar system! Developed for grades 2 to 6.</p> <p style="text-align: right;">Astronomy; 5,6</p>



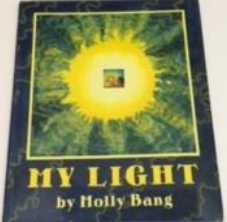

 <p>A large, inflatable planetarium dome is shown in a gymnasium. Several people are gathered around it, and it is illuminated from within, creating a bright, glowing effect.</p>	<p>StarLab Portable Planetarium</p> <p>PreK-ESS1-1</p> <p>Cylinders: Greek Mythology Native American Mythology Plate tectonics Weather</p>	<p>1</p>	<p>This mobile planetarium packs up into three compact boxes and one duffle bag to allow for transportation to diverse settings. The StarLab inflates on site to produce a unique star-gazing experience. This resource must be checked out, transported, and facilitated by a designated MCLA-trained individual.</p> <p style="text-align: right;">Astronomy</p>
 <p>A wooden solar telescope with a yellow frame and a black telescope tube. It has a handle on top and a viewing window on the side.</p>	<p>Sunspotter Solar Telescope</p>	<p>2</p>	<p>This easy to use portable telescope projects an image of the sun where sunspots are clearly visible. Students can safely understand the sun without directly viewing it.</p> <p style="text-align: right;">Astronomy; PreK, 1, 5</p>
 <p>A black stream table with a wooden base. It contains a layer of sand and a small stream of water flowing through it. A black channel is visible on the left side.</p>	<p>Stream Table</p>	<p>2</p>	<p>This resource allows for exploration of erosion, sediment transportation, and delta formation. Help students to comprehend basic earth science interactions by setting up experiments with flowing water. Accompanying sand is also available to borrow.</p> <p style="text-align: right;">Environmental Science</p>
 <p>A set of four black plastic sieves of different mesh sizes, stacked together. One sieve is shown separately in the foreground.</p>	<p>Screen Sieve Set (of four)</p>	<p>2</p>	<p>This set features four stackable sieves with varying mesh sizes. The set is designed to permit experimentation with soils of different particle sizes.</p> <p style="text-align: right;">Environmental Science</p>



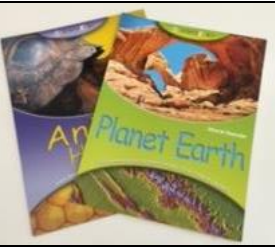

	<p>Environmental Science Vernier LabQuest Starter Package</p> <p>Includes the book <i>Investigating Environmental Science Through Inquiry</i></p>	<p>1</p>	<p><i>Investigating Environmental Science through Inquiry</i> contains 34 inquiry-based, environmental science investigations. Each experiment includes a preliminary activity, teacher information, sample researchable questions, and sample data</p> <p>Starter kit includes Vernier LabQuest interface unit, steel temperature probe, pH sensor, conductivity probe, dissolved oxygen sensor, soil moisture sensor, and turbidity sensor.</p>
	<p>Hach Water Test Kit</p>	<p>1</p>	<p>Environmental Science</p>
	<p>Sudbury Soil Test Kit</p>	<p>5</p>	<p>Environmental Science</p>
	<p>Math and Literature Grades K-1</p> <p>Math and Literature Grades 2-3</p>	<p>1</p> <p>1</p>	<p>The imaginative ideas in children's books come to life in math lessons through this unique series. Each resource provides more than 20 classroom-tested lessons that engage children in mathematical problem solving and reasoning. Each lesson features an overview, materials required, and a vignette of how the lesson actually unfolded in a classroom. This book includes a reference chart indicating the mathematical concept each lesson covers, such as number, geometry, patterns, algebra, measurement, data analysis, or probability. Topics include counting, sorting, addition, subtraction, money, measurement, and patterns.</p>

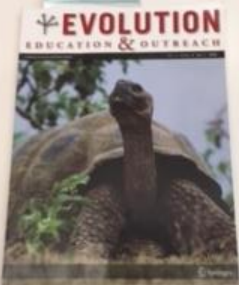
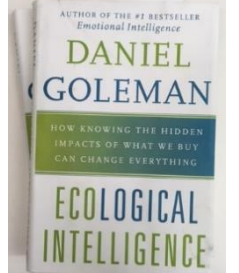

			Math; K-1
			Math; 2-3
	Digi Blocks Grade 1 Classroom Bundle (Base 10) Grade K Classroom Bundle	1 1	Hands on supplemental math program that teaches number sense, place value, and operations with whole numbers and decimals
	Spectrophotometer	5	
			Physics
	Laser Prism Kit	1	
			Physics




	<p>Van de Graff Generator and Discharge Sphere</p>	<p>1</p>	<p style="text-align: right;">Physics</p>
	<p>Physical Science with Vernier LabQuest Starter Package Includes the book Physical Science with Vernier</p>	<p>1</p>	<p><i>Physical Science with Vernier</i> has 35 experiments in mechanics, sound, light, electricity, and magnetism. This book has a wide variety of experiments for Motion Detectors, Force Sensors, Light Sensors, Magnetic Field Sensors, Microphones, Current & Voltage Probes, Photogates, Temperature Probes, and Accelerometers. The starter kit includes the Vernier LabQuest Interface unit, motion detector, dual-range force sensor, pH probe, steel temperature probe, light sensor, conductivity probe, gas pressure sensor, and magnetic field sensor.</p> <p style="text-align: right;">Physics</p>
	<p>Fab@School Makers Studio Software license grades K-8 We also have a Dell Latitude laptop for use with this software</p>	<p>25 1</p>	<p><i>Fab@School Maker Studio</i> is an easy-to-use, web-based design and fabrication tool that invites students in grades PreK-8 to experience STEM and STEAM learning in a more engaging, personally meaningful way. With low-cost materials like paper, cardstock or cardboard, students can use <i>Fab@School Maker Studio</i> to design, invent, and build their own geometric constructions and working machines.</p>
	<p>Silhouette Portrait Cutter to use with Fab@School</p>	<p>1</p>	

	LED light tracer pad	5	
BOOKS/CDs/DVDs			
	<p>Kwame's Sound: An Acoustical Engineering Tale 8</p> <p>Leif Catches the Wind: A Mechanical Engineering Tale 8</p> <p>Saving Salila's Turtle: An Environmental Engineering Tale 8</p> <p>Aisha Makes Work Easier: An Industrial Engineering Tale 7</p> <p>A Reminder For Emily: An Electrical Engineering Tale 1</p>		<p>Written by the Engineering is Elementary Team</p> <p>Illustrated by Jeanette Martin</p>
	Eliza and the Dragonfly	5	<p>Written by Susie Caldwell Rinehart</p> <p>Illustrated by Anisa Claire Hovemann</p> <p>For Ages 4-10</p>
	Under One Rock: Bugs, Slugs, and other Ughs	5	<p>Written by Anthony D. Fredericks</p> <p>Illustrated by Jennifer DiRubbio</p> <p>For Ages 4-10</p>

	<p>On the Day You Were Born Wiggling Worms at Work Magic School Bus: At the Waterworks A River Ran Wild If You Find a Rock</p>	<p>1 5 1 3 2</p>	<p>Written by Debra Frasier By Wendy Pfeffer, Illustrated by Steve Jenkins By Joanna Cole and Bruce Degen By Lynn Cherry Written by Peggy Christian, Photographs by Barbara Hirsch Lember</p>
	<p>Math Expressions Grade 4 Volumes 1 and 2</p>	<p>1</p>	<p>Published by Houghton Mifflin Harcourt</p>
	<p>My Light</p>	<p>4</p>	<p>By Molly Bang</p>
	<p>The Visual Dictionary of the Earth</p>	<p>1</p>	<p>From Eyewitness Visual Dictionaries</p>

	<p>A Guide to Northeastern Dragonflies and Damselflies A Guide to Northeastern Butterflies and Butterfly Gardening Paddler's Guide to New England Rivers</p>	<p>1 1 2</p>	<p>Mass Audubon publications about the wildlife we can find in our own backyards!</p>
	<p>Totally Amazing Careers in Engineering Totally Amazing Careers in Health Sciences Totally Amazing Careers in Earth Sciences Totally Amazing Careers in Space Sciences</p>	<p>1 each</p>	<p>Written by Matt Huston Written by Catherine Ivey Written by Tam O'Shaughnessy Written by Catherine Ivey</p> <p>Books outline different careers that kids can pursue in the sciences with the use of fun and interactive activities and stories</p>
	<p>Science Kids: Planet Earth Science Kids: Animal Homes</p>	<p>1 each</p>	<p>Written by Deborah Chancellor Written by Angela Wilkes</p>
	<p>Earth Movements Sink or Float? Food Chains and Webs</p>	<p>1 each</p>	<p>Delta Science Readers publications</p>

	<p>Evolution, Education & Outreach Volume 1 : Issue 2</p>	<p>1</p>	<p>Published by Springer</p>
	<p>Molecular Ecology Resources</p>	<p>1</p>	<p>From Wiley-Blackwell Publishing</p>
	<p>Ecological Intelligence: Why Knowing the Hidden Impacts of What We Buy Can Change Everything</p>	<p>2</p>	<p>Written by Daniel Goleman</p>
	<p>The End of a Long Summer: Why We Must Remake Our Civilization to Survive on a Volatile Earth</p>	<p>2</p>	<p>Written by Dianne Dumanoski</p>
	<p>Books on Education Boldly Sustainable: Hope and Opportunity for Higher Education in the Age of Climate Change Mathematics and Democracy: The Case for Quantitative Literacy Place-Based Education: Connecting Classrooms & Communities</p>	<p>1 each</p>	<p>Written by Peter Bardaglio & Andrea Putman Prepared by The National Council on Education and the Disciplines Written by David Sobel</p>

	<p>Liberal Arts and STEAM Books Liberal Learning and the Arts and Sciences Major Volume 2 : Reports from the Fields Strong Foundations: Twelve Principles for Effective General Education Programs Joyful Noise: Poems for Two Voices The Mind's Eye: A Liberal Arts Journal</p>	<p>1 each</p>	<p>By the Association of American Colleges By the Association of American Colleges By Paul Fleischman A series of Art and Essays published by MCLA</p>
	<p>Tours of the Night Sky; CD-ROM Space Weather- Computer Program Space Science Careers</p>	<p>1 1 1</p>	<p>Astronomy; 5 Astronomy High School Career Guide</p>
	<p>Minds of Our Own; DVD set</p>	<p>1</p>	<p>Explores how children learn and presents a variety of teaching methods Teaching Method</p>
	<p>Inspiration; CD-ROM</p>	<p>1</p>	<p>Tool to develop ideas and organize thinking</p>
	<p>Bose in Harmony with Education Program; CD-ROM</p>	<p>1</p>	<p>Students can unleash their inventive talents at the same time they learn about music, and the physics and math behind the music.</p>
	<p>KidPix; CD-ROM (demo)</p>	<p>1</p>	
	<p>Starry Night: Complete Space & Astronomy Pack; CD-ROM and book set</p>	<p>1</p>	<p>Astronomy; 5</p>
	<p>Spacecrafter; CD-ROM</p>	<p>1</p>	<p>“Design a solar satellite, encounter the sun’s mysteries, and discover Solar B Astronomy; 5</p>
	<p>On Thin Ice Now on PBS with David Brancaccio</p>	<p>1</p>	<p>Documentary about two men on a journey high in the Himalayas to investigate threats to global water and food supplies</p>