

School	Project Title	Description
Barka Elementary School	Beaming Combos	<p>This unit will:</p> <ol style="list-style-type: none"> 1. Actively engage students in creating an organized list using a spreadsheet on handheld computers to solve a combinations word problem 2. Challenge students to write their own combination problem on a PDA 3. Allow students to challenge other 3rd graders to solve the problems they created on a PDA. <p>. Students will be immersed in solving strategies as well as using their writing skills to create new problems to share with other 3rd graders. Real life connections will make the unit more enticing with "fun to solve" word problems. By completing this unit students will be better equipped to solve and write their own word problems in test situations. The problems will be published and distributed to all elementary schools in Derry.</p>
Belmont Middle School	Shakespearean Theatrical Trailers	<p>In this unit students will study the works of William Shakespeare, create theatrical trailers to "sell" Shakespeare's works to the teen population, and will collaborate with their peers using podcasting. For the project students will utilize laptops which include the following software: Windows Movie Maker (WMM), Windows Media Player, and photo editing software, as well as microphones, digital cameras, DVD burning devices, and books by Bruce Coville. Students will be randomly grouped into "production companies", will read a Shakespearean play, photograph tableaux, podcast journal entries to share with peers from other classes, and compile their photos in a WMM document with music and student-generated narrations to complete their theatrical trailer.</p>
Bethlehem Elementary School	Robotics in Motion	<p>Students will use Lego Mindstorm NXT Robotics kits, computers, Vernier sensors and Loggerpro software to investigate force and motion. Working in cooperative groups of three, students will design an experiment to test a hypothesis that will demonstrate their understanding of force and motion. Using the kits, students will build a robot and test their theories. The motion and force sensors and LoggerPro software will be used to generate data to help students understand how balanced and unbalanced forces are related to an object's motion.</p>
Boscawen Elementary School	B.E.S.T. Friends	<p>The special education teacher and the guidance counselor work with many students to develop appropriate social skills. In one unit, the students discuss and write social stories based on friendship skills. To expand the unit, the special education students and others selected from the class will videotape social interactions, discuss the tapes, list appropriate skills, and then develop and videotape social stories. Students will be motivated by the technology and writing skills will be enriched. The students will learn to use a digital camera, a video camera and editing software. Peers will view them as filmmakers. Group participation will further enhance social skills. The finished tapes can be used with other groups to teach appropriate skills.</p>
Bridgewater-Hebron Village School	Cyber School Newspaper: Do they know we're out there?	<p>The 5th grade classes will explore issues related to motivation and reading informational materials. They will investigate the impact of technology on traditional printed materials. Then they will write and post the BHVS newspaper on the internet. They will receive training and support to enable them to use the InDesign program, and other technologies, to format their school newspaper and post it on the internet. Students will include links to community activities and areas of interest relating to the newspaper's articles. They will count the number of hits on the web site and conduct a survey that reviews how people prefer to get their news.</p>
Conant High School	I want to talk about me	<p>In this highly structured pilot project, developmentally and physically disabled special needs students working with regular education student tutors will create narrated videos with music to describe themselves and their daily lives.</p>

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		<p>Students will record and edit their own music using Audacity, and students will videotape and take still pictures of themselves at home and at school. Students will create and record a narration. The final movie will be made with Moviemaker. Instruction in the use of technology will be the focus of this project.</p> <p>Special education students often do not have opportunities to work with these technologies. Digital video, photos and audio can offer and encourage additional pathways for self-expression and communication.</p>
David R. Cawley Middle School	Making Learning Mobile: Using PDAs in and Outside the Classroom	Grade 6 students will work as cross-functional teams to locate stone walls and answer the essential question "how does technology allow us to make connections to the past through our present day location?" Working in small groups the students will: make visual observations of the current condition for the stone walls; collect geographic data using their GPS and record notes and complete teacher created assignments with their PDAs. The students will use this information to create an interactive map in Arcview GIS. The students will return to the stone walls and use the PDAs to complete a literary piece with their language arts teacher.
Deerfield Community School	Enhancing Communication in the Foreign Language Classroom	TPRS is a storytelling-based method of teaching foreign languages developed by Blaine Ray of Bakersfield, California in the 1990's. TPRS stands for Teaching Proficiency through Reading and Storytelling. Students will record themselves with digital voice recorders sharing TPRS stories and their own story creations in their target foreign languages. These student-generated audio files will enhance computerized storyboards of the stories created with existing school software. These recordings will also be used for assessments, to determine ability levels, as archives in digital portfolios and as learning tools for other foreign language classes.
Exeter School District	Digital Story Telling	We will be taking three different groups of children for this project as we try and use technology resources – specifically digital pictures, audio files, and video clips – to improve the way our young children find their voice and communicate. The groups are close in age (a second grade special ed group, a heterogeneous second grade class, and a heterogeneous third grade class. We want to try and focus on some of the subtle differences in strategies that can be used to encourage the process of moving from oral to written communication. We also want to focus on the final projects and analyze the differences between these student populations.
Freedom Elementary School	Mt. Washington as a Weather Maker	North Haverhill (NH/VT border), Freedom Elementary School (NH/ME), and NCES (Gorham NH) form a triangle with Mt Washington in the middle. By installing weatherstations and using software that relays real time information to a web page, students will be able to analyze, collect, archive, and collaborate to answer this question. Parents, communities and others classes will be able to access the site's weather data or download information to be used in the science classroom, Students will produce video weathercasts that will be available on the web and create weather analyses that can become a part of the student's electronic portfolio.
Gilbert H. Hood Middle School	Don't Drink the Water!	Students engage in discovering that life exists in water and can affect humans. This hands-on unit will involve learning to use microscopes in order to view microbes in water. To ensure student technique, the teacher will demonstrate by connecting the digital microscope to the TV providing all students with a visual of the same slide while the teacher identifies organisms. Images can be captured digitally and used to create a commercial or public service announcement. Students will research types of organisms, diseases, and water source procedures from the water company. Final product will be an informational brochure and a commercial
Holy Trinity Catholic School	If it's Tuesday, This must be London	During a social studies unit on Europe, students in grade 4 will be partnered and choose or be assigned a European country to research. Given a range of topics / guidelines, students will use the Internet, appropriate software and other resources to find information on their country. An interactive whiteboard will be used to demonstrate websites, software, and presentation tools. Acting as travel agents, students will give a presentation on their country to the class,

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		and the third grade, using the interactive whiteboard and appropriate software. Based on the presentations, students will vote for the country they would most like to visit.
Inter-Lakes	The Mathematics of Rocketry	This is an integrated rocketry project where we will test mathematical formulas on the performance of a rocket. We will fire the rockets first and then video tape the launch and flight. Students will then experiment with different variables such as added area on the fins and differing weights. The students will then predict the effects on future flights. After the students have used the data to make predictions, we will fire the rockets again and compare their predictions with the actual results. We will use video cameras to film the flights and video software to analyze and edit the flights for data collection. In addition we will use webcams and animation software to produce realistic flight models based on the data collected. Finally we will produce a web site/ bulletin board where students will post and share information throughout the project.
Kennett High School	Where is the Yellow Submarine	What makes a great movie? Good movies start with thoughtful story lines. Students will use an online blog to hone their writing skills to create movies with impact. Throughout the writing process, the blog will be a medium to share their ideas through peer reading, writing and editing. The students will use critical thinking skills to evaluate, interpret and revise their stories. Technology will allow students to engage in writing in a new way: to move their writing skills to a higher level and provide a strong vehicle for communication. Once the students have completed their stories, they will bring them to life and create animated movies.
Littleton High School	Creating Meaningful Statistical Surveys	Students will define a question that requires a statistical survey- an observational, experimental, or research design. They will devise and implement a study, using descriptive and inferential statistics, and gather data to support their thesis. They will use spreadsheets, including Fathom software, a visual presenter, an LCD projector, and TI graphing calculators and a viewscreen in their investigations and presentations.
New Hampton Community School	Growing a Garden Business	Fifth grade students will create a small business utilizing an existing campus greenhouse. They will be growing plants, conducting growth experiments and establishing local markets for their plants. Students will use 21st century tools to create advertisements while learning desktop publishing. They will use spreadsheets to create and analyze profit & loss statements, graphs and growth charts, and to log service hours. A cash register will provide authentic experiences with money as students sell plants. Students will demonstrate new learning in the areas of science, math and technology by sharing knowledge with local garden club mentors.
Oyster River High School	Do you know what's outside your window?	This project will allow high school biology students to work with elementary students as science and technology mentors. The teams will work collaboratively to explore the ecosystems around the elementary schools. The teams will create a question about an ecosystem as a whole or a specific part of that ecosystem and then design a project or lab to answer that question. The project will culminate in the teams designing and creating a public service video and brochure that will provide an answer to their question. A variety of technology will be used in this project including GPS and GIS technology to locate and mark parts of the environment; Vernier probes for data collection, digital photography and videography to record the process and create the final project.
Oyster River High School	How Is Math Used In The Real World?	Students in Algebra I and Geometry classes will learn to use a computer aided design program (CAD) to integrate their knowledge of the coordinate system and the geometry of home design. Students will work in teams to learn to use a CAD program to graph lines on the coordinate plane and sketch two-dimensional figures. Once the basics are learned, student pairs will design a floor plan for a two level house with specific criteria. Student teams will present their projects to the class including the use of technology. Students will also include this project in their digital portfolio. The classroom teacher will assess student understanding of the technology, the development of their projects and accuracy of their work through the use of rubrics.

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Pembroke Academy	ABC: A way to Be in a robotics Competition	An Incredible educational experience for students is to participate in the FIRST Robotics Competitions. Unfortunately, it is a very expensive endeavor and requires a high level of technical ability that many schools do not have available. Two years ago FIRST piloted the VEX robotics competitions which are only about 10% of the cost of competing with the large robots and the technical level is easily found within secondary-level schools. This proposal will provide 10 schools, each with a startup kit, programming kit, and power pack so they can form a robotics team and compete in a robotics competition to be held at Pembroke Academy in April of 2007
Thayer Jr Hi School	Seeing is Believing: How can basic algebra be visualized using graphs and geometry	<p>Winchester seventh and eighth graders will use networked graphing calculators and geometry software to collaborate with each other and their teacher on the essential question of visualizing algebra. Using the Texas Instrument Navigator adaptors, software and training, teachers and students will be able to address these questions with visual representations. Using IM and email, Winchester students will communicate with their Keene counterparts on the skills they need for high school math courses.</p> <p>The project will challenge students to find new ways to interpret traditional mathematical operations such as: Order of Operations, the Distributive Law, and even maybe the foundations of Calculus (which really is just trying to find the area under a curve).</p>
Wells Memorial School	Outside Our Windows	Students will collect and share data and observations through ePals with classes in Brazil and Italy. Students will compare our own weather station data monthly, and then compare it with data from Italy and Brazil. They will use a digital microscope to view and display findings. Students will use computers for research and to contact their ePals, a scanner, a digital camera, auto night camera, and a digital video camera to record data and changes which will then be exchanged with Brazil and Italy. This information will also be presented to the Wells Memorial student body at whole school meetings through a student designed iMovie and PowerPoint presentations. Additional evening presentations for parents will be offered.
Whitefiled Elementary School	News from the Past	Students will create a newscast from a past era in history by viewing a news broadcast and making parallels between current time and a historical era. By working in groups, students will identify their topic (news, sports, weather, advertisement) research information and write a script for their portion of the newscast. Each group will design a production backdrop with the assistance of the Art Teacher, film the sequence and edit their portion in MovieMaker. Each portion will be combined to produce the finished product. This project supports collaborative learning across multiple content areas and engage learners in the multimedia process.