

Fund Code 165: Model Technology Integration Grant Descriptions 2002-03

Adams-Cheshire

Project Title: *ASSIST Project*

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Curriculum Area: All Subject Areas

Grade Level: PreK-12

Project Overview:

The versatility of Intellitools hardware and software provided accessible technology for student learning last year at the C.T. Plunkett School. The Intellitools hardware and software enabled teachers to create, modify, and extend activities in language arts, math, science and social studies. This project provided adaptive and assistive technology for all students (preschool through 12th grade, disabled and non-disabled, English speaking or English limited) within the space of their regular education classroom. By bringing Intellitools into the regular education classroom, students with diverse learning needs were able to participate in the learning of all subjects side by side with their peers. This is the essence of ASSIST, Achieving Student Success through Intellitools Software and Training.

Amherst (with Amherst/Pelham RSD and Pelham)

Project Title: *Living History Online*

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Curriculum Area: History and Social Science

Grade Level: 5-8

Project Overview:

The Massachusetts Curriculum Frameworks in History and Social Studies (both the 1997 and 2001 versions) state that students should delve into primary sources and “learn to draw conclusions logically from available evidence.” Living History Online proposes to give fifth grade teachers and students and one eighth grade class from a consortium of school districts the skills and knowledge to access primary source materials that they will then use to research some aspect of their community’s history. Ultimately, participating classes will create a website showcasing what they’ve discovered. The website will also serve as an online resource to others in the community. Also available at the website will be a printable guide, created with input from the participating teachers, on how to replicate Living History Online in any Massachusetts community. Support for the project will come not only from the Amherst Public Schools, which has seen 12 classes over the past two years create intricate websites under the title *Opening Windows on the Past*

(<http://www.arps.org/amhersthistory/index.html>), but will also come from the Center for Computer-Based Instructional Technology (CCBIT) at the University of Massachusetts.

Barnstable Gr. 5 Horace Mann Charter School**Project Title:** *Project HOBO*

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Curriculum Area: Science and Technology/Engineering**Grade Level:** 5**Project Overview:**

Students use HOBO Data Loggers, small devices which can measure temperature, humidity, dew point, light intensity, and other factors. The technology has been used to support the school's 5th grade weather unit. The school has used the units to perform weather experiments and entered and won gift certificates and prizes in the iScienceProject contest sponsored by Onset Computer Corporation. The use of these devices has resulted in improvement in academic areas as well as in technology literacy, critical thinking, and experimentation set-up and analysis. The devices were initially used with gifted and talented students but their use has spread to the entire student population including special needs, bilingual, ESL, and at-risk students.

Boston**Project Title:** *Technology Based Curriculum Design Project*

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Curriculum Area: English Language Arts**Grade Level:** K-8**Project Overview:**

The purpose of the Technology Based Curriculum Design Project is to use technology to create a literacy curriculum designed for the range of learners in a classroom as opposed to constantly adapting curriculum as individual student's challenges arise. This curriculum is designed so that children can learn at their own level, with technology tools that address their specific challenges and that are programmed and controlled by the teacher. The goals of the Technology Based Curriculum Design Project include enhancing reading comprehension by making observations, asking questions, and expressing opinions. Students will be able to make text to self, text to text and text to world connections and to be able to answer three basic types of questions: literal, inferential and evaluative. They will also be able to compare and contrast, predict and summarize. Through this work, students will also hone their vocabulary and language skills. Students will use the context of the story and their own background knowledge to construct meaning of specific words from within the text. They will be interested in words and demonstrate pleasure in using new words to express their ideas and thoughts when speaking and writing.

Brockton**Project Title:** *Enhancing Early Literacy with Alphasmarts*

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Carla Keith

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The Eldon B. Keith School exemplary project is the Whitman School Best Practices from 2000-2001 called AlphaSmarts. The exemplary project that we plan to model was written for use in grades 1,2 and 3. The Keith School plans to utilize AlphaSmarts in our K, K Plus and 3 Plus programs. The introduction of the AlphaSmarts computer companion will enable users to type, edit, and electronically store text and to practice keyboarding, without having to be at a computer station. This will support whole class instruction and increase time on task, eliminating the need for students to wait their turn on a computer.

Chicopee**Project Title:** *Bridging the Gap*

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Curriculum Area: English Language Arts**Grade Level:** 7**Project Overview:**

Students prepared both paper scrapbooks and PowerPoint presentations about the state of Massachusetts, the city of Chicopee, and Fairview Veterans Memorial Middle School. These projects were presented to and evaluated by fellow classmates, then exchanged with a 7th Grade class at Galena Middle School in Illinois through e-mail and snail mail. This year our entire 7th grade will adapt this project to meet the needs of differing content subject areas. Students will research a topic in a specific subject area and create a scrapbook based upon their findings. The result will be authentic and engaging for students who will be able to construct their own learning.

Falmouth**Project Title:** *Integrating Technology into the Curriculum*

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Curriculum Area: English Language Arts

Grade Level: 3-4

Project Overview:

This grant will enhance the project started last year at the East Falmouth Elementary School by providing access to AlphaSmart Keyboards to all fourth grade classrooms. Teachers will be supported in their integration of technology across the curriculum by the technology aide, enrichment teacher, as well as mentor teachers who used the AlphaSmart keyboards last year to improve the writing skills of their students. Teachers were able to incorporate the use of technology to produce multimedia projects, reports, oral presentation, and graphs for science. This grant will also allow for the expansion of this project to another elementary school in Falmouth, the Teaticket School, for use in their third grade. AlphaSmart Keyboards will be provided to third grade classrooms to share. An electronic library of lessons and Internet links that were developed last year will support curriculum integration. This grant will involve a total of eight classrooms, two technology aides, and the grant contact who will develop and implement the training needed for this project.

Frontier RSD (with Greenfield)

Project Title:

The Nile of New England

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Curriculum Area: English Language Arts/History and Social Science

Grade Level: 9-12

Project Overview:

The Nile of New England: A Study of the History of the Connecticut River Valley is an exemplary interdisciplinary American history and Language Arts course for grades 9-12 which is infused with technology. This course is closely aligned with both the pedagogy and core content of Massachusetts History and Social Science Curriculum Framework, particularly the strands of American History and Government, and Geography, Economics and Civics. This is a rigorous semester-long humanities course that focuses on the study of the Connecticut River Valley over the periods of three turns of centuries in order to teach about the larger themes of American history. Themes explored include economics, architecture, immigration, religion, democracy, the role of women, family life, land use, and industrialization. Technology is used extensively; students use PVMA's nationally recognized *American Centuries* website (www.americancenturies.mass.edu) to find and examine historic artifacts and documents. Like historians, students analyze and interpret the remnants of the past to learn about what life was like in that period of time, and how that related to national events of the period. This combination of pedagogy (inquiry and project-based learning) and technology has been documented to be extremely successful with all students.

Greater Lawrence Technical School

Project Title:

*A Multi-Disciplinary Approach
Linking Cluster Based Teams to Project Based Learning*

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Curriculum Area: Math, English Language Arts, History and Social Science

Grade Level: 10-11

Project Overview:

This past year, the school's cluster-based team teachers in Math, English, and Social Studies successfully completed a project-based learning program using technology researched at the MIT Media Lab and Webcast Ware, Inc. This technology-based model integrated language arts through reflective essays, mathematics through numeric description, social studies through research, and science through the use of energy and conservation. Newly created portfolios served as an assessment tool and showcased students' academic achievement. The small learning academy model this school has embraced through the clustering initiative not only supports, but also advances the district's efforts to meet the state's learning standards and align with the curriculum frameworks. The advanced technology to support student learning was based upon the real world application of robotics intelligence. Students must use the Internet to research the science. Live Webcast videoconferences enable students and local teachers to collaborate with specialists from MIT, Brigham and Women's Hospital, and industry leaders. Students learn to draw logical flow charts and to program microcomputers. This year's project was to design and build a robot that simulates what happens to the human body under the influence of alcohol. The project has engaged an unusually high percentage of our urban, bilingual, low socio-economic student population who generally may not have the access and exposure to these prestigious resources.

Greenfield

Project Title: *You Took the Words Right out of My Mouth*

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Curriculum Area: English Language Arts

Grade Level: 2-5

Project Overview:

This project intends to integrate technology into the classroom that will enhance the written communication skills of all students in grades two through five. Teachers and students will learn the full potential of assistive technology software, *Write:Outloud* and *Co:Writer*, and utilize its benefits in practical applications. The second grade teacher scans or types a student's work into *Write:Outloud*. With the aid of the classroom projector, the entire class watches and listens to the absence of "stops" at the end of sentences, affecting the meaning of the piece. The class directs the teacher to make the appropriate edits so that the story makes sense and is mechanically correct. This powerful mini-lesson can be replicated at any grade level for any objective in writing with this software. Moreover, students learn how to use the software through whole class demonstrations. Students with orthographic spelling difficulties use the software to phonetically spell words. The program *Co-writer* gives auditory feedback to what is being typed and the students choose the word that sounds like the word they want to type.

Leominster (with Fitchburg)**Project Title:** *Students as Technology Leaders in North Central MA*

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George Luoto

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The Leominster and Fitchburg public schools will begin to assimilate existing technology components into a coordinated “Students As Technology Leaders” (SATL) career opportunity. Leominster, in a partnership with CISCO Corporation and Mount Wachusett Community College, is offering one of the first high school CISCO Academies in the region. This program, in conjunction with the A+ certification offering, provides for an exciting career opportunity for Leominster’s students. This project will include community outreach to provide service and create mentor/protégé relationships. The teachers involved in this program have received an extensive amount of professional development and classroom experience. The adoption portion of this project will include outreach to the Fitchburg Public Schools with the goal of professional development for educators and the creation of a technology career pathway at the high school. This project will build on the students’ science and technology/engineering course work and provide an opportunity for students to experience work based learning in a relevant technology field.

Lexington (with Cambridge)**Project Title:** *EdTech Online*

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Curriculum Area: All Subjects**Grade Level:** PreK-12**Project Overview:**

During the fall of 2001, six Lexington curricular leaders were trained by staff at the Education Development Center, Inc. (EDC) in Newton, MA to deliver standards-based online workshops which focus on integrating technology into the curriculum in specific subject areas and grade levels. These leaders participated in the EdTech Leaders Online semester long online course, *Educational Technology and Online Learning*. The course focused on integrating technology into the curriculum, online teaching and learning, and specific preparation to facilitate an EdTech Leaders Online Facilitator’s Forum. This forum provides ongoing support to facilitators implementing online workshops in their districts, and allows for sharing and collaboration among trained facilitators, both across the state of MA as well as nationally.

Lowell**Project Title:** *Intellistudy and Activity Exchange*

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Curriculum Area: English Language Arts/Mathematics

Grade Level: PreK-8

Project Overview:

Staff members, including regular and special education teachers, related service providers and paraprofessionals, participate in a series of after school professional development sessions. A consultant and Lowell Public School staff, who have received prior training on the technology tools, teach and facilitate sessions. The training sessions focus on three universally designed integrated software tools found in the IntelliTools Classroom Pac. The applications include IntelliTalk II, a talking word processor and authoring tool, IntelliMathics, a problem solving and authoring tool, and IntelliPics Studio, a tool for creating multimedia reports, presentations and activities. In addition, participants are given an activity CD with sample standards based curriculum activities, including step by step instructions. The sample learning activities are created by the presenters using IntelliTalk II and IntelliMathics and tailored to the participants' classroom curriculum. Training also includes suggestions regarding activity selection and design, diversified instruction, adaptive access and student use. Following these training sessions, participants have their students use the technology tools and sample activities in their classrooms and continue to develop additional activities to be used in extended lesson plans in the content area using a study group approach.

Mendon-Upton (with Worcester)

Project Title: *A Technology Smorgasbord*

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Curriculum Area: All Subject Areas

Grade Level: 5-8

Project Overview:

This project includes a smorgasbord of technology with the most important ingredients: the learning standards of the Massachusetts Curriculum Frameworks. Our educators and students will share best practices, produce project-based lessons, strengthen technology skills, and extend learning beyond the boundaries of school. Miscoe Elementary in Mendon-Upton and Forest Middle School in Worcester will have equal access to the learning technologies, and with technology as our main course, the teachers in both communities will collaborate and work toward engaging students with new opportunities, friendships and experiences. This recipe for successful integration of technology will enable our students to become publishers, presenters, authors, illustrators, and web developers. The students will be involved with designing, developing, sharing and contributing to classroom content, thus cooking up a balanced meal for themselves as engaged, involved and active learners that will generate effective classroom projects while learning real-world skills.

Methuen

Project Title: *Project Bridge*

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Curriculum Area: All Subject Areas

Grade Level: 9-12

Project Overview:

This project came about when Methuen High's media department was expanded to include an additional teacher assigned to teach exclusively in the media production area. The media department began a process of developing relationships with other departments to assist in the integration of technology into subject area lesson plans. Students were encouraged to participate in the expanded media production classes, to produce subject matter products, and to encourage the learning of both the media production students and students enrolled in other subject classes. The media production students who were enrolled in this expanded department offering were able to develop products that would inform others and provide evidence that the learning of both subject matter and process had occurred. The media production students were able to establish a pattern for dual assessment in subject classes and in media production classes. As a result, media production classes were enhanced and subject teachers received products of a higher caliber. The teacher response to this integration was successful and many subject area teachers began to encourage students in its use. Several teachers also saw the academic benefits that resulted from the use of technological skills and approached the media production teachers and to request that they do whole class projects with the subject classes.

Mohawk Trail

Project Title: *Write On!*

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Curriculum Area: English Language Arts

Grade Level: 4-12

Project Overview:

The goal of Write On! is to improve the ability of our students to write effectively. Students will be taught to use specific software applications to support their writing from beginning to end, using *Inspiration* to brainstorm and *MS Word* to compose, revise, edit and publish. This project, which is predicated on using the computer to strengthen the writing skills needed for long compositions, was designed to help our students acquire writing skills. During the 2001-2002 school year, one fifth-grade class used computers extensively to address their writing deficiencies. Students were given instruction and practice in using the computer at each of the stages of the writing process: brainstorming, organizing, first draft, revising, editing, and publishing.

New Bedford

Project Title: *Teaching Content with Online Lesson Formats*

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Curriculum Area: History and Social Science

Grade Level: 9-12

Project Overview:

Using a variety of online teacher tools and lesson formats, a team of teachers will continue to use Web resources in each of their content areas to enhance their instruction and to engage their students in inquiry-based learning experiences. Through our Project MEET (MA Empowering Educators through Technology) initiatives, our teachers and students have been using quality Web-based resources to enhance their classroom instruction. This coming year, working with an expanded team of teachers, New Bedford High School's Instructional Technology Specialist and present Project MEET TPD (Technology Professional Development) specialist plan to assist more teachers and students in using technology as a tool in the classroom. Through the use of teacher team members as content specialists, other teachers will learn how to improve their teaching using technology and their students will be the beneficiaries of these efforts.

North Adams**Project Title:** *KICK Program*

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Curriculum Area: All Subject Areas**Grade Level:** PreK-8**Project Overview:**

KICK (Kids Involved in Curriculum Using KidPix) targeted the special needs population in the primary grades of North Adams schools in all subject areas. This represents approximately 15% of our total school population. The needs of these children include a vast spectrum from specific learning disabilities to autism to cerebral palsy. The variety of tools found in KidPix software accompanied with the activity kits and resource materials allow many special needs students to take part in their regular classroom curriculum using material adapted to meet their individual needs. KICK began to grow as the "typical" students saw what these "special" children were doing and wanted to be included. As a result, more advanced activities from the kits were used with these children. We have seen positive impact on student learning and productivity. KICK also impacted the social emotional behavior of these students. Students in the mainstream at North Adams Schools began using KidPix to complete simple projects as to complement curriculum units.

Orange**Project Title:** *Water Works for Us*

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Curriculum Area: Science and Technology/Engineering**Grade Level:** 5-6

Project Overview:

This yearlong unit involving 5th and 6th grade students is a chemical and biological water-monitoring project of small tributaries of the Millers River Watershed. The culmination of this project is to continue to understand how acid rain and other pollution may affect our rivers during the different seasons. Students learn to perform basic water quality testing procedures, along with water flow speeds, using chemical and biological analyses. These findings, along with surrounding vegetation descriptions and identification, will be recorded on site on Palm Pilots for later downloading to computers back at the school site. In addition students learn the scientific method and use it to formulate a testable hypothesis, select appropriate tools and technology, present and explain data and findings using multiple representations, draw conclusions based on data or evidence presented in tables or graphs, and communicate procedures and results using appropriate science and technology terminology using multimedia presentations.

Pioneer Valley (with Orange)**Project Title:** *Probing the Depths*

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Curriculum Area: Science and Technology/Engineering**Grade Level:** 5-6**Project Overview:**

This yearlong unit engages 5th and 6th grade students in monitoring a small tributary in the Connecticut River Watershed to foster environmental awareness and stewardship. The culmination of this project is the release of Salmon Fry in the local waterway. Students learn to perform basic water quality testing procedures using chemical and biological analyses. In addition students learn the scientific method and use it to formulate a testable hypothesis, select appropriate tools and technology, present and explain data and findings using multiple representations, draw conclusions based on data or evidence presented in tables or graphs, and communicate procedures and results using appropriate science and technology terminology using multimedia presentations. Using the theme of understanding the environment this unit integrates language arts, science, math, technology literacy and arts.

Quincy**Project Title:** *Mapping the Ocean Floor*

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Curriculum Area: Math/Science and Technology/Engineering**Grade Level:** 7-8

Project Overview:

This project is an ocean floor mapping activity. Students learn about the ocean floor and then create a model of the ocean floor using clay. The model is put in a shoebox and covered. Measurements of the ocean floor are taken and then put into a spreadsheet. Students turn the data into a 3D contour map. Students then manipulate the map and view from all sides. The purpose of this activity is to show how scientists examine the ocean floor. Using an LCD projector and large screen, the students then explain their data while manipulating the graph for the whole class to see. Finally, the students create a six-panel brochure explaining the activity and their learning experience.

Rockport (with Salem)**Project Title:** Elementary School Electronic Portfolios

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Eileen Mesmer

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The objective of our partnership's project, Elementary School Electronic Portfolios (ESEP), is to assess student progress in relation to the State Frameworks and to provide concrete evidence of it to both parents and children. In both districts we envision network -archived student electronic portfolios covering their K-12 careers, realizing the Education Reform vision of a means to measure progress in a way complementary to MCAS. Even at its present level ESEP is a valuable addition to report cards and parent conferences. While portfolio content will vary by grade, we will combine Salem's and Rockport's experience to include student photos at the beginning and end of school with the results of a simple research project, e.g. the life cycle of the frog. The primary dissemination target will be other schools in the partnership, but we will also produce a "how-to" website and conduct a workshop, whose target is other interested districts.

Shutesbury**Project Title:** *It's Hip to Be Square*

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Curriculum Area: Math/Arts

Grade Level: 3-5

Project Overview:

This 4th grade technology project integrates computers, LCSI MicroWorlds (Logo programming software), Internet Web sites, color printers, scanners, and electronic presentation equipment to implement learning standards aligned with Massachusetts Math, Art, and Instructional Technology curriculum frameworks. Fourth graders at Shutesbury Elementary learn important math operations and geometry concepts more deeply exploring MicroWorlds Logo construction kit than they would if solving problems only with pencil and paper. They also learn to work with a computer programming language, experiment with mathematical objects that respond to their programming commands, and think about math operations in an exciting new way. The project incorporates mathematically rich, interactive environments for representing, exploring, and analyzing geometry and other math ideas. We integrate Web explorations so that interactive, real-time shape investigations reinforce concepts taught. We also provide high-quality professional development to teachers so they can incorporate Logo curriculum in their classes. As youngsters complete several design projects and harness the Web to view geometric shapes and structures from multiple perspectives, they begin to work and think like mathematicians, programmers, and artists.

Southern Berkshire

Project Title: Critical Friends Group Model

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Curriculum Area: All Subject Areas

Grade Level: PreK-12

Project Overview:

This project began with our District's involvement in the VES project. Southern Berkshire was one of the original "working group" members as well as members of the VEC (Virtual Education Collaborative). Fifteen VES - Critical Friends Groups (CFGs) were formed, each facilitated by a faculty member. The entire District was represented in this project preK-12. The CFGs received training from three distinct sources: 1) The Coalition of Essential Schools provided several days of workshops on curriculum development and team building, 2) the VES organization and Mass Networks also provided the groups with curriculum writing assistance and assistance using CLASP, 3) the elementary principal and technology coordinator provided several workshops dealing with lesson plan development and associated rubrics. The technology we used throughout the process was delivered through VES and our District Intranet.

Springfield

Project Title: *On the Move in Social Studies with Mobile Technology*

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Curriculum Area: History and Social Science

Grade Level: 4-5

Project Overview:

Teachers are working with a new Social Studies Framework. This grant award enables grade four and five teachers to augment and refocus their technology infused and enhanced lesson plan repertoire and align it to the new Social Studies Framework. This will be accomplished through the implementation of quality Professional Development, embedded support delivered by the Technology Integration Specialist, the advanced technology of a mobile cart of computers to implement web-based and online learning activities, and the access of Publisher software to create numerous Desktop Publishing scenarios.

This project ensures the delivery of multiple educational experiences (including addressing Universal Design for Learning and Assistive Technology needs) that support the academic achievement of all student learners in the Brunton School.

Sturbridge

Project Title: *Math Instruction through Inexpensive Digital Video Techniques*

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Curriculum Area: Math/English Language Arts

Grade Level: 4

Project Overview:

In the Fall of 2000, two teachers in Sturbridge, following a workshop with the well known animator, Huey, discovered techniques which allowed their students to create animated presentations using inexpensive equipment. In reviewing math journals, created with the software program "Easy Book", the teacher saw a lack of understanding of certain geometric and measurement concepts. After collaborating with the Special Needs teacher and the Technology Integration Specialist (TIS), she decided to have students create a film which would engage them in problem solving, communicating, reasoning, connecting and representing these mathematical concepts. The resulting idea for the video was a medieval princess who must rescue the imprisoned prince by solving mathematical questions. She relies on the help of a dragon who transports her to the future where she receives the instruction needed to solve the problems. The medieval part was to be accomplished using paper cut out animation. The whole class wrote the script, which included all the mathematical problems needed to rescue the prince. The instructions for the princess were skits planned by student groups composed by the teacher according to mathematical needs assessment. The goal of each group was to communicate their mathematical concept, as if they were teachers.

Upper Cape Cod RTS

Project Title: *Integrated Saltworks Technology Project*

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Curriculum Area: Math/Science and Technology/Engineering

Grade Level: 9-12

Project Overview:

In May 2000, UCCRTS was approached by the Bourne Historical Society and asked to become partners in the building of a working Cape Cod Saltworks at a year-round sight in Bourne called the Aptucxet Trading Post. The project included building a windmill and constructing a system that produced salt through the evaporation process. Instructors of the eleventh grade students in math, science and technology worked as a team planning lessons that had been created around this project. Instructors noted that the interest level of all students, especially special education and at-risk students, was so high they chose to make this an eleventh grade project for the following year replicating the design of the windmill in math class and researching and analyzing experiments in chemistry to produce pure NaCl (table salt) from seawater utilizing the ancient methods of seawater evaporation, which of course was the function of the Cape Cod Saltworks. UCCRTS staff is interested in sharing this project with Bourne High School. Additionally, UCCRTS is interested in upgrading and expanding this project by developing a web site utilizing a bulletin board for the exchange of ideas with educational sites and further enhancement of the project.

Ware (with Palmer)

Project Title: *VHS Project DEEPS*

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Curriculum Area: All Subject Areas

Grade Level: 9-12

Project Overview:

VHS (Virtual High School) Project DEEPS (Differentiated Educational Experience Promoting Success) will use the skills developed through the DOE technology mentoring grant last year to replicate the Virtual High School program in a neighboring school district. The Ware High School will act as the lead agency in facilitating the Palmer District in effectively using Virtual High School to teach courses that would otherwise be unavailable to students living in rural, central, MA. Virtual High School offers a wide range of challenging course work to individual students from across the country. Students are able to take courses in advanced physics, media design and creative poetry that the local schools are unable to staff. Ware Public Schools have integrated this program over the past year and a half with a great deal of success. We would like to replicate it by supporting implementation in the neighboring school district. This project has the potential to reach nearly all interested students of high school age in the South Quabbin region of Central MA.

Wareham (with Fairhaven)

Project Title: *Integrating Technology into the Science Classroom*

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Curriculum Area: Science and Technology/Engineering

Grade Level:

Project Overview:

This project will integrate new data acquisition technology into the science classrooms of both the Fairhaven and Wareham School Districts, allowing for more precise data collection through the use of electronic probe ware. The technology required will provide an additional learning method for diverse learners and a hands-on learning technique that is vital for special needs students, ESL, visual learners, and advanced learners. Students in Physics (12th grade), Chemistry (11th grade) and Biology (10th grade) will develop advanced inquiry skills through the use of this technology in the laboratory and will share (through e-mail) their analyzed data with students in another school district. The opportunities provided will enable students to analyze, organize for presentation, and compare their results in the lab with results from other students. In addition, the students will be able to evaluate reasons for inconsistent results. Furthermore, workshops will be offered for all teachers in both science departments. They will be designed to teach them how to use the technology, incorporate it into the classroom setting, use the analysis program to thoroughly analyze data, send the data and graphs through email, and resolve inconsistent findings.

Westfield **Project Title:** *Using Technology Learning Centers*

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Curriculum Area: All Subject Areas

Grade Level: 1

Project Overview:

Technology Learning Centers in primary grade classrooms aims to increase technology literacy while providing students with stimulating learning activities designed to meet the Curriculum Frameworks. An example of this model is a Science "living things" project done last year in the first grade classes at Moseley Elementary School. In this unit students were growing seeds and learning about the life cycle of a plant. Throughout the unit students used computers to keep a journal of what was happening to their seeds and used a pre-made spreadsheet to log their plant's growth. They extended their knowledge about plants and the life cycle of living things through whole group activities using science videos and teacher-selected Internet sites. Near the end of the science unit students shared what they had learned about the life cycle of a plant through written sentences typed in a word processing program and diagrams created using drawing tools. As a culminating activity all of the students' work was combined with digital photos of the plant's growing stages to create a Kid Pix Slide Show. Students' voices were recorded reading their sentences to add narration and the completed multimedia projects were presented to parents and teachers at a First Grade Authors Night.

Worcester **Project Title:** *Radio and TV Production for Kids by Kids*

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Curriculum Area:**Grade Level:****Project Overview:**

This project involves two main topics – interviews and the A.L.L. (Accelerated Learning Lab) School Storybook. Students go out into the community and interview community and academic leaders. The project also features students, from the Worcester School system, who have demonstrated academic achievement, worked in community or school partnerships, and have made a difference in the lives of Worcester residents. These programs are thirty minutes in length and are aired weekly on radio station WCUW 91.3 FM. The students also create informative ads in a community outreach, featuring projects taking place in the Worcester community. These interviews and ads are videotaped, edited in our television studio and aired on Cable Channel 11. The A.L.L. School Storybook presents students featuring the best books in children’s literature. Students and parents also contribute to programming. In addition, the stories along with parent segments and reading tips and strategies are taped in the A.L.L School television studio and edited with our Digi Suite software on our editing system.