

**Fund Code 165: Model Technology Integration Grants
Final Report 2002-2003 School Year**

The Fund Code 165 grant program enables teachers to disseminate exemplary curriculum projects that use advanced technology to support student learning of content aligned with the Massachusetts Curriculum Frameworks. Teachers also learn how to integrate classroom instruction with the Massachusetts Recommended PreK-12 Instructional Technology Standards to increase technology literacy in students.

During the 2002-03 school year, a total of **\$915,125** was awarded for this competitive technology grant. This funding came from the USDOE through Title IID: Enhancing Education through Technology. Through this grant, **31 projects** were funded, and **41 districts (including 31 high need districts that partnered with other districts)** benefited from the grant. This document is a summary report of how the funds were used, as well as a basic description of projects along with relevant links. More detailed descriptions of each project as well as contact information can be found at: <http://www.doe.mass.edu/edtech/grants/fy03/mti.pdf>

The following table shows statistics for teachers who received professional development through Model Technology Integration Grants.

Professional Development Participation
Total number of professional development participants: 595
Average number of professional development participants per project: 19
Total hours of professional development: 1320 hours
Average hours of professional development per project: 43 hours

The following table shows spending on professional development.

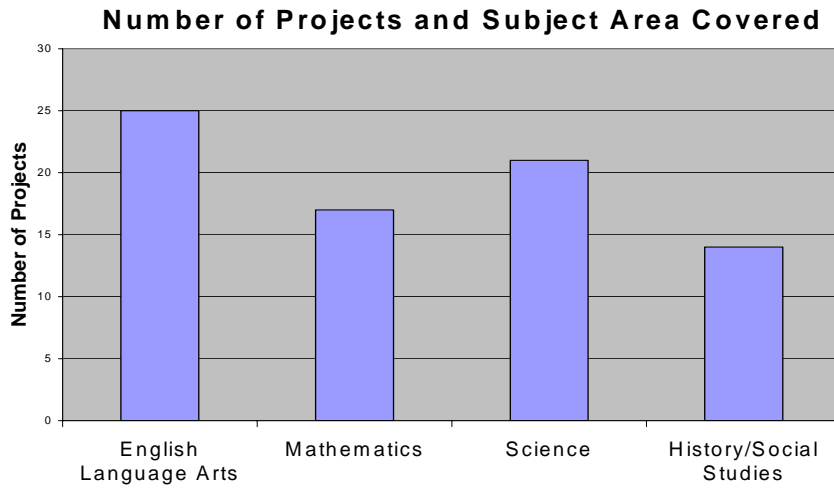
Professional Development
31 of 31 districts used funding in this area
Average percentage of funds spent in this area: 39.92%
Approximately \$365,318 spent on professional development

The following two tables show spending on hardware, software, and online purchases.

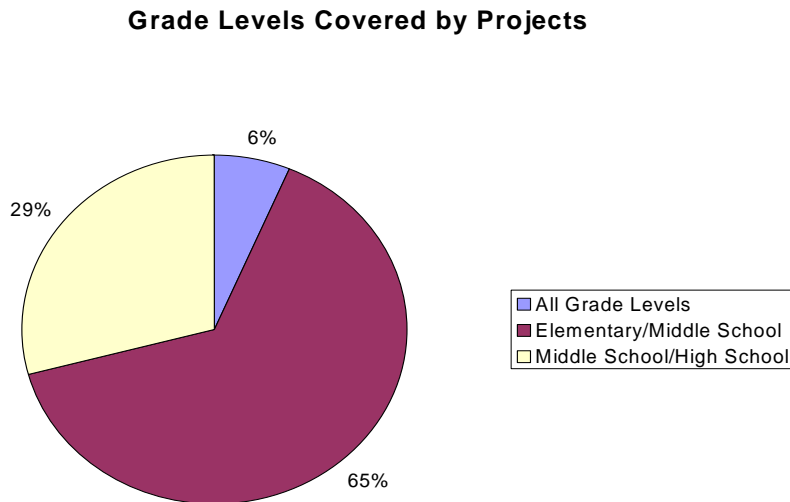
Percentage of Funds Used for Hardware Purchases
31 of 32 districts used funding for these purchases
Average percentage of funds spent in this area: 38.79%
Approximately \$354,977 spent on hardware purchases

Percentage of funds used for Software/Online Service Purchases:
24 of 31 districts used funding for these purchases
Average percentage of funds spent in this area: 13.77%
Approximately \$126,013 spent on software/online service purchases

This grant program focused on exemplary curriculum projects that use advanced technology. The following graph shows the number of projects in each curriculum area.



The following graph shows the number of projects at each grade level.



Estimated Total Students Impacted: 23,351

Average Number of Students Impacted in Each Project: 778

Grant Descriptions and Links

Adams-Cheshire

Project ASSIST

This project utilized *IntelliTools* hardware and software to improve the quality of instruction in the classroom. Special education and regular education teachers participated in the professional development. All participants planned and completed a project using one of the *IntelliTools* programs.

School website: <http://ctp.acrsd.net/>

Amherst Pubic Schools

Living History Online

This project studied the impact of a web-based local history project on students' computer skills and attitudes as well as their attitudes toward history learning using primary sources and computer technology. Students used computers, digital cameras, *Microsoft FrontPage* and *Office*.

<http://www.arps.org/amhersthhistory/>

<http://www.hatfieldpublicschools.net/elementary/HIP>

Barnstable Horace Mann Charter School

Project HOBO

Students used *HOBO* data loggers to study weather elements such as temperature, light intensity, and relative humidity. This project was featured in *eSchool News* and also was presented at the recent MassCUE conference. School website: <http://www.barnhoracemann.org/>

<http://www.eschoolnews.com/news/Alertunreg.cfm?ArticleID=4608&ul=%2Fnews%2FshowStory%2Ecfm%3FArticleID%3D4608>

<http://www2.masscue.org/conference/wednesday.htm>

Boston Public Schools

Technology-Based Curriculum Design Project

The Young Achievers School used technology to create curriculum for a range of learners. CAST was a partner and teachers received training in Universal Design for Learning theory.

School website: <http://www.foya.org/pilotschool.htm>

<http://www.cast.org/udl/index.cfm?i=259>

<http://www.cast.org/udl/index.cfm?i=2974>

<http://www.cast.org/udl/index.cfm?i=359>

Brockton Public Schools

Enhancing Early Literacy with AlphaSmarts

AlphaSmarts and digital cameras were used in this project with students in regular and special education.

School website: <http://www.brocktonpublicschools.com/schools/elem/keithearlycenter.html>

Chicopee Public Schools

Bridging the Gap

Students from Fairview Veterans Memorial Middle School researched topics and produced *PowerPoint* presentations. School website: <http://fairview.chicopee.mec.edu/gateway.htm>

Falmouth Public Schools

Integrating Technology into the Curriculum

This project involved using *AlphaSmarts* to help students improve their writing skills.

School website: <http://www.falmouth.k12.ma.us/tt/>

Frontier Regional School District

The Nile of New England

This study of the history of the Connecticut River Valley incorporated online and onsite resources. The project involved collaboration among museums, librarians, and neighboring school districts. Students used the American Centuries website as a reference:

<http://www.americancenturies.mass.edu>

District website <http://www.frsd.deerfield.ma.us/>

Greater Lawrence Technical School

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

Students planned and built robotic devices. Students used *Microsoft Office*, *FrontPage*, *Photoshop*, and *Windows Media Encoder*.

<http://www.build-it-yourself.com/project-glts-mcas/>

School website: <http://www.glts.tec.ma.us/index.jsp>

Greenfield Public Schools

You Took the Words Right out of My Mouth

Students used *Write:Outloud* and *Co:Writer* assistive technology software to improve reading and writing skills. District website: <http://www.gpsk12.org/>

Leominster Public Schools

Students as Technology Leaders in North Central Massachusetts

Students extended the work they had done in Cisco and A+ programs to learn skills in other areas such as graphic design. Programs used included *Adobe Photoshop* and *Illustrator*.

School website: http://www.leominster.mec.edu/cte_index.htm

Lexington Public Schools

EdTech Online

This online professional development project involved courses in educational resources on the web, special education, project-based learning, and using technology to support the writing process.

<http://notes.lexingtonma.org/cgi-bin/Calendar/GroupDocs?Group=pd,op,tech;Label=OP-TE:%20Technology>

Lowell Public Schools

Intellistudy and Activity Exchange

This project involved usage of the *IntelliTools Classroom Pac*, which includes *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.

Lowell Educational Technology Website: <http://www.lowell.k12.ma.us/et/default.htm>

Mendon-Upton Regional School District

A Technology Smorgasbord

This project involved sharing of best practices, production of project-based lessons, and strengthening of technology skills. Technologies used included computers, the Internet, *PowerPoint*, a multimedia cart, and *SMART Boards*.

District website: <http://www.mu-regional.k12.ma.us/getfreeinternettoolsforteachers.htm>

Methuen Public Schools

Project Bridge

This project focused on media production and its integration into various content areas. Among the technologies used were *Avid Xpress DV*, *Adobe Acrobat*, and *Adobe Photoshop*.

Methuen High Media Department: <http://www.methuen.k12.ma.us/fkgurczak/>

Mohawk Trail Regional School District

Write On!

Students used *Inspiration* to brainstorm and *Microsoft Word* to compose, revise, edit and publish their compositions.

District website: <http://www.mohawk.k14.mass.edu/>

New Bedford Public Schools

Teaching Content with Online Lesson Formats

This project aimed to improve teaching and learning as teachers developed a deeper understanding of the role of technology in instruction. Professional development emphasized concepts from Project MEET (<http://www.doe.mass.edu/projectmeet/>).

District website: <http://www.newbedford.k12.ma.us/srhigh/tougas/meet.htm>

North Adams Public Schools

KICK (Kids Involved in Curriculum Using KidPix) Program

This project focused on students with special needs and utilized the *KidPix* program. The purpose of workshops was to create activities that expand, adapt, and enrich the curriculum.

District website: <http://www.northadamsschools.com/>

Orange Public Schools

Water Works for Us

This water-monitoring project involved the use of Palm handhelds and probes. Students used *Excel* to create graphs of findings, *DataStudio* to confirm accuracy of graphs, *Word* to write their conclusions, and *PowerPoint* to present their findings.

District website: <http://myschoolonline.com/site/0,1876,2647-22192-2-8655,00.html>

Pioneer Valley Regional School District

Probing the Depths

Partnering with Orange Public Schools, this project involved water quality testing. Students also used probes as well as digital cameras and digital microscopes.

District website: <http://www.pioneervalley.k12.ma.us/>

Quincy Public Schools

Mapping the Ocean Floor

Students made contour maps of the ocean floor using computers and *Microsoft Office*.

School website: <http://www.quincypublicschools.com/atlantic/atlantic.htm>

Rockport Public Schools

Elementary School Electronic Portfolios

Students used programs such as *KidPix* and *HyperStudio* to create electronic portfolios.

<http://www.rockport.k12.ma.us/res/grant165/index.html>

Shutesbury Elementary School

It's Hip to Be Square

Students used *LCSI MicroWorlds* (Logo programming software) in order to better understand geometry, programming, and art.

<http://www.shutesbury.k14.mass.edu/logolindsay/logolessonplans/logolessonplans.html>

Southern Berkshire Regional School District

Critical Friends Group Model

This project involved usage of Virtual Education Space (VES, <http://www.ves.mass.edu/>) for curriculum and lesson plan development.

District website: <http://www.sbrsd.org/>

Springfield Public Schools

On the Move in Social Studies with Mobile Technology

This professional development project involved teachers using laptops, *Microsoft Office*, and *Mimio* devices.

District Technology Dept. website: <http://www.sps.springfield.ma.us/tech/default.asp>

Sturbridge Public Schools (Tantasqua and Union 61)

Math Instruction through Inexpensive Digital Video Techniques

Students used still cameras, digital camcorders, *Apple iMovie*, *KidPix*, and wireless *iBooks* to develop video presentations to enhance learning of subject matter.

School website: <http://www.tantasqua.org/burgess/index.htm>

Upper Cape Cod Regional Technical School

Integrated Saltworks Technology Project

Students learned to use CAD programs to design replicas of a saltworks. Project coordinators presented at a national High Schools That Work conference in Atlanta and a Connecting for Success Conference in Marlborough.

http://www.uppercapetech.com/saltworks/salt_index.html

Ware Public Schools

VHS Project DEEPS

This project involved replication of the Virtual High Schools (VHS) program with Palmer Public Schools.

District website: <http://www.ware.k12.ma.us/education/district/district.php?sectionid=1>

Wareham Public Schools*Integrating Technology into the Science Classroom*

This project involved students using probeware, *Waveport* software, and *Xplorer* science kits to better understand concepts in physics, chemistry, and biology.

District website: www.wareham.mec.edu

Westfield Public Schools*Using Technology Learning Centers*

Students used programs such as *KidPix*, *Easy Book Deluxe*, *Kidspiration*, *TimeLiner*, and *Reader Rabbit* to increase technology literacy and stimulate learning.

District website: <http://www.ci.westfield.ma.us/school.html>

Worcester Public Schools

Students learned to use audio and video equipment and how radio and television productions are made. <http://www.wpsweb.com/all/WWW/Projects/Media/t.v.resources.htm>