

GenYES

2005-2006 Evaluation Data

Online evaluation tools provided by the Research Unit of the
Center for Research, Evaluation and Assessment at the
Northwest Regional Educational Laboratory:
www.nwrel.org/research



This report includes data from the following schools:

CESA 12

Ashland Middle School, Ashland School District
Bayfield School, Bayfield School District
Butternut School, Butternut Schools
Drummond Elementary School, Drummond Area SD
Glidden High School, Glidden School District
Hayward Middle School, Hayward Community School District
Mellen School, Mellen School District

GenYES Custom Evaluation Results

On the following pages you will find a report containing data from the GenYES classes in your area. Depending on how your GenYES classes are funded, the data may be from a single school, an entire district or state, or some other grouping of schools. These data have been prepared for you by the Evaluation Program of the Northwest Regional Educational Laboratory (www.nwrel.org/evaluation), as part of the service provided to your schools by GenYES.

The information in this report comes from several sources, all collected online through the GenYES web site. The report contains tabulations of results from the following online data collection forms:

- Surveys of participating students at the beginning and end of each class
- Project descriptions completed by participating students during each class
- Reports from GenYES Coordinating Teachers at the end of each class

We hope you find this information interesting and useful. GenYES is aimed at helping you integrate technology in your classrooms, while engaging students in meaningful educational activities that support teachers, other students, administrators, and your community. The data presented here should give you a snapshot of what your students and teachers have been doing in their GenYES classes and projects, and how well these activities are supporting technology integration and student engagement in your schools.

An additional report summarizing data on GenYES classes across the nation is also available. By comparing national data to the information from your area, you may be able to notice differences, strengths, or weaknesses in your local schools that are of interest.

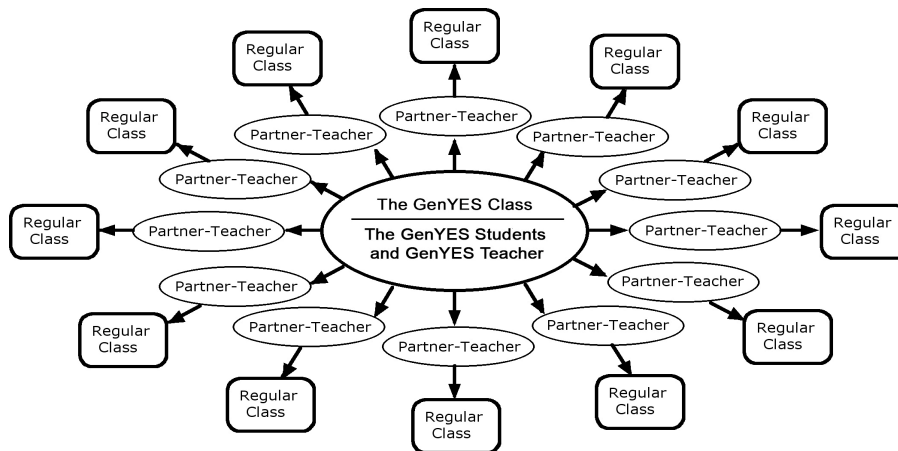
GenYES Overview

GenYES is a program that uses partnerships between students and teachers to integrate modern computer technologies into the classroom. The program promotes the effective use of educational technology in schools, develops opportunities for student leadership, and fosters a collaborative, learning community atmosphere in schools. Rather than teaching technology skills to teachers and hoping they will use these skills to improve their students' learning, GenYES trains students to form working partnerships with teachers in order to improve teaching and learning in their schools. Students become agents of change, assuming responsibility for helping to improve the educational resources available to themselves and their classmates.

GenYES students learn technology skills with an emphasis on applying these skills to a real-world problem: helping teachers use technology to deliver more effective lessons. Students and partner teachers learn how telecommunications tools, the Internet, digital imaging and presentation tools, and other technologies can enhance lesson plans and curriculum units. Many GenYES students and partner teachers also learn about their state academic standards and learning goals, and the process of aligning classroom activities with these goals.

For those unfamiliar with the program, the term "partner-teacher" is used to refer to the classroom teacher who is paired with a GenYES student. These teams collaborate in the production and delivery of a lesson plan or unit, using modern telecommunications technology, to the teacher's class. The term "GenYES teacher" or "GenYES coordinating teacher" refers to the teacher who works with all GenYES students in a school, as they learn skills and knowledge through the course activities and design their projects with partner teachers. The GenYES teacher also helps coordinate the relationships between the GenYES students and their partner teachers, and facilitates the process of developing the collaborative projects. The core of the model is the GenYES class and the collaborative projects which GenYES students and their partner teachers produce for students in the partner teachers' class, as depicted in Figure 1.

Figure 1. The GenYES Class



GenYES provides fully participating schools with the following:

- A training workshop for the GenYES teacher(s) and selected students
- Course materials, including curriculum guides, student resources, videos, CDs, etc.
- Access to online resources and consultants for the development of student projects
- Access to the searchable database of previous student projects
- Data collection and reporting services to monitor program outcomes

Program Goals

Each GenYES student is paired with a partner teacher (or an administrator, librarian, counselor or other educator), who decides what lesson plan, curriculum unit, or other school need will be addressed by a collaborative, technology-enriched curriculum project, which the partner teacher and the GenYES student produce together. These projects are then used in the partner teacher's regular classroom, or in the library, administrative offices, etc. Through this model, participating educators receive individualized support as they strengthen their use and integration of new technologies. Students learn technology, communication, collaboration, and project management skills in an authentic, personally meaningful context, and many go on to further extend their skills through advanced school or community service projects.

The program was developed in the Olympia, Washington School District, with a five-year award in 1996 from the U.S. Department of Education's Technology Innovation Challenge Grant program. Numerous state and local grants as well as corporate sponsorships have also supported the development of the instructional model and materials, as well as dissemination of the model to schools outside Olympia. Currently, GenYES classes are provided through the Generation YES organization to schools nationwide. The program provides a model which can be customized to fit a wide range of grade levels, technology infrastructures, scheduling requirements, interests, and skill levels of participants. In the summer of 2000, the program was awarded "Exemplary" status by the department's Expert Panel on Educational Technology, a distinction given to only two of 134 programs.

Results

Data from the nationwide project indicate that the program can be an effective alternative for schools wishing to integrate technology into their regular curriculum and increase their use of project-based, student-centered learning practices. The model provides individualized support for educators who wish to increase their use of technology without becoming distracted from the essence of their jobs --building and delivering effective curriculum units and lesson plans. GenYES achieves this by giving students experience with educational technology, communication skills, and information literacy, then allowing students to act as responsible partners with their teachers in building new curriculum materials and new teaching and learning practices.

Participating teachers and students have consistently reported that their involvement in GenYES afforded them an excellent opportunity to improve their basic technology skills, and to develop more advanced abilities to integrate technology in standards-based lessons, projects and curriculum units. Both teachers and students have reported that they gained meaningful, authentic experience developing skills in technology use, collaboration, project management, and information literacy, while contributing to the improvement of their schools. Most have found the GenYES model to be an effective professional development strategy for teachers, as well as an effective approach to increasing student engagement, student learning, and student leadership.

The program includes a series of online surveys and online project documentation facilities for GenYES teachers, GenYES students, and the Partner Teachers who work with the GenYES students. Data from these sources, collected during the 2005-2006 school year, are presented in the following tables.

GenYES Coordinating Teacher Reports

At the close of each GenYES class, teachers are asked to complete an online report that includes questions about the collaborative projects involving their students and partner-teachers from their school, the technical and administrative infrastructure in their school, and their ratings of the usefulness of the GenYES model, curriculum components, online services, etc. The tables in this section provide a summary of their responses.

Table 1 - Average Numbers of GenYES Students and Collaborative Projects

| GenYES Teacher Survey Question | Average in classes |
|--|--------------------|
| How many students completed your GenYES class? | 6.7 |
| How many collaborative projects were begun by your students? | 4.3 |
| How many projects were completed? | 3.0 |
| How many projects were delivered to a partner teacher's class? | 2.7 |

(percentage of approximately 3 reporting)

Table 2 - Difficulty of Managing Collaborative Partnerships and Projects

| | Very Difficult | Difficult | OK | Easy | Very Easy |
|--|----------------|-----------|------|------|-----------|
| How difficult was it to find partner teachers interested in participating? | -- | 66.7 | 33.3 | -- | -- |
| How difficult was it to make good matches between those teachers and your GenYES students? | -- | -- | 33.3 | 66.7 | -- |
| How difficult was it to nurture and manage the working partnerships between your GenYES students and their partner teachers? | -- | 33.3 | -- | 66.7 | -- |
| How difficult was it to adjust the class for students and partner teachers with varying levels of expertise with computers? | -- | -- | 66.7 | 33.3 | -- |

(percentage of approximately 3 reporting)

Table 3 - Infrastructure and Administrative Context

| | Strongly Agree | Mostly Agree | Mixed | Mostly Disagree | Strongly Disagree |
|--|----------------|--------------|-------|-----------------|-------------------|
| The computer and network infrastructure at our school is adequate. | 33.3 | 33.3 | 33.3 | -- | -- |
| Students have adequate permissions and privileges to use our computer and network resources, e-mail, and the Internet. | 33.3 | 33.3 | -- | -- | 33.3 |
| Our teachers are enthusiastic about the GenYES model, in which they work in partnership with students to create curriculum and instruction materials and projects for other students to use. | -- | 66.7 | 33.3 | -- | -- |
| The schedule and administrative structure and processes at our school are flexible enough to allow creative and varied collaboration between students and teachers. | -- | 66.7 | 33.3 | -- | -- |
| GenYES is viewed in our school as a serious professional development and technical support model for teachers who want to integrate technology in their classrooms. | -- | 66.7 | 33.3 | -- | -- |
| GenYES projects are used to support other special initiatives in our school aimed at technology integration, professional development or curriculum development. | -- | 66.7 | 33.3 | -- | -- |

(percentage of approximately 3 reporting)

Table 4 - GenYES Teacher Ratings of Success and Impact

| | Strongly Agree | Mostly Agree | Mixed | Mostly Disagree | Strongly Disagree | No Opinion |
|--|----------------|--------------|-------|-----------------|-------------------|------------|
| The GenYES model is a good way to help teachers integrate technology in their classrooms. | 66.7 | 33.3 | -- | -- | -- | -- |
| The GenYES model is a good way to make school more engaging and meaningful to students. | 100.0 | -- | -- | -- | -- | -- |
| The GenYES model is a good way for students to learn technology skills. | 100.0 | -- | -- | -- | -- | -- |
| The GenYES model is a good way for students to practice solving real-world problems. | 66.7 | 33.3 | -- | -- | -- | -- |
| The GenYES training I received was adequate to prepare me to teach this course. | 33.3 | 66.7 | -- | -- | -- | -- |
| The GenYES central office staff has been responsive and helpful when I have requested assistance. | 66.7 | -- | 33.3 | -- | -- | -- |
| The GenYES Curriculum Guide has been very useful to me in delivering the course. | 33.3 | 66.7 | -- | -- | -- | -- |
| The GenYES Student Workbook has been very useful to me in delivering the course. | 50.0 | 50.0 | -- | -- | -- | -- |
| The GenYES CD has been very useful to me in delivering the course. | 33.3 | 33.3 | 33.3 | -- | -- | -- |
| The GenYES Video has been very useful to me in delivering the course. | 33.3 | 33.3 | 33.3 | -- | -- | -- |
| The GenYES Website has been very useful to me in delivering the course. | 33.3 | 66.7 | -- | -- | -- | -- |
| The GenYES online system for registering schools, teachers, classes and students has been easy to use. | 66.7 | -- | 33.3 | -- | -- | -- |
| The GenYES online Classroom Management tools have been easy to use and helpful to me in delivering the course. | 33.3 | 66.7 | -- | -- | -- | -- |
| The GenYES online Project Proposal, Feedback and Final Report system for students has been easy to use and helpful to me in delivering the course. | 33.3 | 33.3 | -- | -- | 33.3 | -- |
| The online Archive of GenYES collaborative projects has been easy to use and helpful to me in delivering the course. | -- | 66.7 | 33.3 | -- | -- | -- |
| We will continue to offer GenYES classes at our school in the future. | 33.3 | 66.7 | -- | -- | -- | -- |
| I would be willing to serve as a trainer for teachers in my region who want to begin GenYES programs in their schools. | -- | 66.7 | 33.3 | -- | -- | -- |

(percentage of approximately 3 reporting)

Student Preliminary Survey Results

Students complete a preliminary survey when they register for the the GenYES class. The survey includes demographics as well as questions about access to computers and the internet, current skill levels and prior use of digital tools. This information is summarized in the next set of tables.

Table 5 - Participating GenYES Students by Gender

| Gender | Percentage of Students |
|--------|------------------------|
| Male | 50.8 |
| Female | 49.2 |

(percentage of approximately 59 reporting)

Table 6 - Participating GenYES Students by Ethnicity

| Ethnicity | Percentage of Students |
|--------------------------------|------------------------|
| Caucasian | 84.7 |
| African American | -- |
| Hispanic | -- |
| Asian | -- |
| Pacific Islander | -- |
| Native American/Native Alaskan | 6.8 |
| Other | 8.5 |

(percentage of approximately 59 reporting)

Table 7 - Computer Access at Home by GenYES Students

| At home do you have access to: | Yes | No |
|--------------------------------|------|------|
| A computer | 91.4 | 8.6 |
| The Internet | 76.3 | 23.7 |
| Send and receive email | 73.7 | 26.3 |

(percentage of approximately 58 reporting)

Table 8 - Frequency of Computer Use by GenYES Students at Home and School

| How often do you use a computer? | Almost every day | At least once a week | Once or twice a month | Once or twice a semester | Never or don't have access |
|----------------------------------|------------------|----------------------|-----------------------|--------------------------|----------------------------|
| At home | 49.1 | 29.8 | 15.8 | -- | 5.3 |
| At school | 54.4 | 36.8 | 7.0 | 1.8 | -- |

(percentage of approximately 57 reporting)

Table 9 - Student Experience With Computer and Technology Prior to Participating in GenYES

| How much experience have you had with the following: | None | Just a little | Some | A lot |
|--|------|---------------|------|-------|
| Use word processing software | -- | 6.8 | 39.0 | 54.2 |
| Search the Internet | 1.7 | 3.4 | 15.3 | 79.7 |
| Send and receive email | 18.6 | 13.6 | 20.3 | 47.5 |
| Use PowerPoint or other presentation software | 10.2 | 18.6 | 44.1 | 27.1 |
| Troubleshoot basic computer problems | 22.4 | 39.7 | 24.1 | 13.8 |
| Use a scanner to digitize a picture | 31.6 | 31.6 | 22.8 | 14.0 |
| Use a digital camera | 5.2 | 12.1 | 31.0 | 51.7 |
| Create a web page or web site | 61.0 | 22.0 | 13.6 | 3.4 |
| Touch-typing at least 15 words/minute | 5.1 | 11.9 | 23.7 | 59.3 |

(percentage of approximately 59 reporting)

Table 10 - Frequency of Computer Use in Classes

| In the classes you took last semester/quarter, how often were computers used by you or your teachers? | Computers were never used | Computers were used once | Computers were used a few times | Computers were used about once per week | Computers were used several times per week |
|---|---------------------------|--------------------------|---------------------------------|---|--|
| Math | 81.0 | 5.2 | 6.9 | 1.7 | 5.2 |
| Language Arts, Reading or English | 20.7 | 3.4 | 55.2 | 15.5 | 5.2 |
| Science | 17.2 | 12.1 | 58.6 | 6.9 | 5.2 |
| Social Studies, Geography or History | 11.9 | 23.7 | 45.8 | 11.9 | 6.8 |

(percentage of approximately 58 reporting)

Project Outcomes

Just before the class is over, students are prompted to complete a second online survey. Questions include how much practice students gained in various skill areas, what kind of collaborative projects were built, and how students rated their projects on several dimensions. The tables below summarize the outcomes reported by students.

Table 11 - Practice Gained in Computing Skills by GenYES Students

| During your work this semester as a GenYES student, how much practice and experience did you get: | None, I didn't do this at all | Just a little; 2 hours or less | Some; 2 to 10 hours | Quite a bit; 10 to 20 hours total | A lot; mor than 20 hours total |
|---|-------------------------------|--------------------------------|---------------------|-----------------------------------|--------------------------------|
| Use word processing software | 7.7 | -- | 46.2 | 7.7 | 38.5 |
| Search the Internet | -- | -- | 30.8 | 61.5 | 7.7 |
| Send and receive email | 38.5 | 30.8 | 23.1 | -- | 7.7 |
| Use PowerPoint or other presentation software | -- | 23.1 | 23.1 | 7.7 | 46.2 |
| Troubleshoot basic computer problems | 23.1 | 53.8 | 23.1 | -- | -- |
| Use a scanner to digitize a pricture | 38.5 | 30.8 | 15.4 | 7.7 | 7.7 |
| Use a digital camera | 23.1 | 30.8 | 23.1 | 7.7 | 15.4 |
| Create a web page or web site | 76.9 | 15.4 | 7.7 | -- | -- |
| Using a keyboard to touch-type at least 15 words/min | 7.7 | 15.4 | 23.1 | 30.8 | 23.1 |

(percentage of approximately 13 reporting)

Table 12 - Types of Collaborative Projects Built by Students and Partner Teachers

| Project Type | Percentage of projects that included this component: | Percentage of projects that were mainly focused on this component: |
|---|--|--|
| GenYES student created or updated a Web page that was used by my partner teacher's class | 7.7 | 8.3 |
| GenYES student helped other students search the Web for information on a class topic | 61.5 | 8.3 |
| GenYES student developed an educational presentation using PowerPoint, HyperStudio, or other software | 92.3 | 50 |
| GenYES student taught technology skills to a teacher | 53.8 | 16.7 |
| GenYES student taught techonlogy skills to other students | 84.6 | 8.3 |
| Other | 0 | 8.3 |

(percentage of approximately 13 reporting)

Table 13 - Delivery of Collaborative Projects

| | Only Me | Only my Partner Teacher | Both of Us Together |
|---|---------|-------------------------|---------------------|
| When the lesson was delivered to your partner-teacher's class, who taught the class that day? | 11.1 | 22.2 | 66.7 |

(percentage of approximately 9 reporting)

Table 14 - Student Self-Assessments of Their Collaborative Projects

| Mark the answer that best describes your experience in GenYES: | Strongly Agree | Agree | Disagree | Strongly Disagree | Not sure, N/A |
|---|----------------|-------|----------|-------------------|---------------|
| I completed my project. | 50.0 | 33.3 | 8.3 | -- | 8.3 |
| I am proud of my project. | 66.7 | 25.0 | -- | -- | 8.3 |
| As a result of my project, other students learned about technology. | 25.0 | 66.7 | -- | -- | 8.3 |
| As a result of my project, other students learned about a subject (e.g. history, math, English, etc.) | 16.7 | 50.0 | 8.3 | -- | 25.0 |
| The feedback about my project proposal I got online was helpful. | 41.7 | 50.0 | -- | -- | 8.3 |
| My partner-teacher's expectations of me were clear and realistic. | 41.7 | 50.0 | -- | -- | 8.3 |
| My partner-teacher was able to meet with me regularly. | 25.0 | 41.7 | 16.7 | -- | 16.7 |
| My partner-teacher and I worked together well as a team. | 33.3 | 50.0 | 8.3 | -- | 8.3 |
| Overall, GenYES was a good experience. | 66.7 | 25.0 | -- | -- | 8.3 |

(percentage of approximately 12 reporting)

Partner-Teacher Outcomes

At the end of each GenYES class, participating partner-teachers are asked to complete a survey about their experiences working with a GenYES student on a collaborative, curriculum-building project. Partner-teachers are asked about changes in their attitudes and use of technology, the amount of time spent on their projects, and their ratings of a number of dimensions related to the new curriculum units or lesson plans. Their responses are summarized in the tables below, along with a listing of the project titles.

Table 15 - Self-Assessed Change In Computer Use by GenYES Partner Teachers

| How has the frequency of the following changed as a result of your involvement with GenYES? | More Frequently | Same Frequency | Less Frequently |
|--|-----------------|----------------|-----------------|
| You use computers to prepare for class, maintain class records, or do other school-related work. | -- | 100.0 | -- |
| You use computers for personal business, learning, or fun. | 87.5 | 12.5 | -- |
| You use e-mail. | -- | 100.0 | -- |
| You use the World Wide Web. | -- | 100.0 | -- |
| Your students use computers during your classes. | 12.5 | 87.5 | -- |
| Your students use computers outside of class to complete assignments for your class. | 87.5 | 12.5 | -- |

(percentage of approximately 8 reporting)

Table 16 - Self-Assessed Change In Partner Teachers' Comfort Using Technology

| How has your comfort level with the following changed as a result of your involvement with GenYES? | More comfortable | Same level or comfort | Less comfortable |
|--|------------------|-----------------------|------------------|
| Using computers | 87.5 | 12.5 | -- |
| Integrating computers into the curriculum | 100.0 | -- | -- |
| Helping students use computers | 100.0 | -- | -- |
| Using e-mail | -- | 100.0 | -- |
| Using the World Wide Web | -- | 100.0 | -- |

(percentage of approximately 8 reporting)

Table 17 - Time Spent by Partner Teachers on Collaborative Projects

| | 2 hrs or less | 3-5 hours | 5-8 hours | >8 hours |
|--|---------------|-----------|-----------|----------|
| Partner Teachers: How much time, in total, did you spend working with your GenYES student this semester? | 12.5 | -- | -- | 87.5 |

(percentage of approximately 8 reporting)

Table 18 - Partner Teacher Evaluations of the GenYES Experience

| Please indicate your level of agreement with each of the following: | Strongly Agree | Agree | Disagree | Strongly Disagree |
|---|----------------|-------|----------|-------------------|
| My student-partner completed his or her project. | 100.0 | -- | -- | -- |
| My student-partner's project was of high quality. | 100.0 | -- | -- | -- |
| I will use the lesson/Web page/presentation with which my student-partner helped in the future. | 87.5 | 12.5 | -- | -- |
| I would like to continue developing or refining this project in the future. | 100.0 | -- | -- | -- |
| Choosing a project was relatively easy. | 100.0 | -- | -- | -- |
| My role as a partner-teacher was clear to me. | 100.0 | -- | -- | -- |
| As a consequence of GenYES, I learned more about technology. | 100.0 | -- | -- | -- |
| As a consequence of GenYES, my students learned about technology. | 87.5 | 12.5 | -- | -- |
| As a consequence of GenYES, my students learned about some content area. | 100.0 | -- | -- | -- |
| GenYES is a good method for providing support and assistance to teachers as they integrate technology into their classes. | 12.5 | 87.5 | -- | -- |
| My experience in GenYES this semester will change the way I teach some lessons in the future. | 87.5 | 12.5 | -- | -- |
| I would like to work with another GenYES student in the coming year. | -- | 100.0 | -- | -- |
| I will continue rebuilding my lesson plans to make more use of educational technology. | 100.0 | -- | -- | -- |

(percentage of approximately 8 reporting)

Table 19 - Partner Teacher Attitudes Toward Educational Computing

| Please rate your opinions regarding the use of technology in education: | Strongly Agree | Agree | Disagree | Strongly Disagree | Due to my experience with GenYES, I: | | |
|---|----------------|-------|----------|-------------------|--------------------------------------|------------------------|----------------------------|
| | | | | | Agree more than before | Agree less than before | Haven't changed my opinion |
| I see definite benefits to students from integrating technology into education. | 100.0 | -- | -- | -- | 100.0 | -- | -- |
| Technology facilitates positive changes in classroom teaching and learning practices. | 100.0 | -- | -- | -- | -- | -- | 100.0 |
| I want to learn more about using new technologies. | 100.0 | -- | -- | -- | 100.0 | -- | -- |

(percentage of approximately 8 reporting)

Project Category

Table 20 - Classes/Audiences Served by Partner Teachers Who Provided Evaluative Feedback on GenYES Collaborative Projects

| Project Category | Number | Percentage |
|-----------------------|--------|------------|
| Technology | 38 | 62.3 |
| Social Studies | 9 | 14.8 |
| Science | 6 | 9.8 |
| ~Other | 4 | 6.6 |
| Math | 3 | 4.9 |
| English/Language Arts | 1 | 1.6 |

Project List

Table 21 - Archived Collaborative Projects

| School | Partner-Teacher | Project Name |
|----------------------------|-------------------|--|
| Ashland Middle School | Aaron Mertig | Washington Name Tags |
| Ashland Middle School | Amy Broeniman | Stock Market |
| Ashland Middle School | Mrs. Schraufnagel | Animal Power Points |
| Bayfield School | Ali Nyara | Arctic Animals |
| Bayfield School | Ali Nyara | Arctic Presentation |
| Bayfield School | Mrs. Cameron | History of Red Cliff |
| Butternut School | Mrs. Elkins | How to Use WorldBook Online |
| Butternut School | Mrs. Mary Elkins | Teaching Kidspiration |
| Butternut School | Mrs. Mary Elkins | Teaching Timeliner |
| Drummond Elementary School | Heather Best | Kidspiration |
| Drummond Elementary School | Mr Iverson | Fifth Grade iMovie |
| Drummond Elementary School | Mr. Perkins | Winter Carnival iMovie |
| Drummond Elementary School | Skip Perkins | GCF and LCM Appleworks Slideshow |
| Glidden High School | Kevin Wellman | History of Glidden |
| Glidden High School | Mr. Cuba | Internet Safety PowerPoints |
| Glidden High School | Mr. Shackleton | |
| Glidden High School | Mrs. Schultz | Money and Numbers |
| Hayward Middle School | Janelle Disher | 2005-06 Video Yearbook |
| Mellen School | | |
| Mellen School | Lisa Seiffert | Prparing a Presentation for the Board |
| Mellen School | Miss Hamilton | American Revolution Power Point |
| Mellen School | Miss. Mullineux | Researching Careers |
| Mellen School | Theresa Paulsen | Air Pollution Multimedia Presentations |