

GENERATION



Generation Y

2004-2005 Evaluation Data

*Prepared for **Generation YES** by the
Northwest Regional Educational Laboratory*



This report includes data from the following schools:

CESA 12

Ashland High School, Ashland School District
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 Intermediate School, Hayward Community School District
Hayward Middle School, Hayward Community School District
Hurley K-12 School, Hurley School District
La Pointe School, Bayfield School District
Mellen School, Mellen School District
Northern Lights Elementary, Superior School District
Northwestern Elementary, Maple School District
Northwestern Middle School, Maple School District
Northwood School, Northwood School District
Park Falls Middle School, Park Falls School District
South Shore Jr Sr High School, South Shore School District

Generation Y Evaluation Results

On the following pages you will find a report containing data from the Generation Y classes in your area. Depending on how your Generation Y 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 Generation YES.

The information in this report comes from several sources, all collected online through the Generation Y 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 Generation Y Coordinating Teachers at the end of each class
- Note: Surveys completed by Gen Y teachers at the end of each class are normally included in this report. These surveys were not available for 2004-2005 because of a problem with a new database system; they will be back next year.

We hope you find this information interesting and useful. Generation Y 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 Generation Y classes and projects, and how well these activities are supporting technology integration and student engagement in your schools.

An additional report summarizing data on Generation Y 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.

Overview of Generation Y

Generation Y is a program which 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, Generation Y 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.

GenY 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 Generation Y students

and partner teachers also learn about their state academic standards and learning goals, and the process of aligning classroom activities with these goals. Each GenY 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 GenY 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, Generation Y 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.

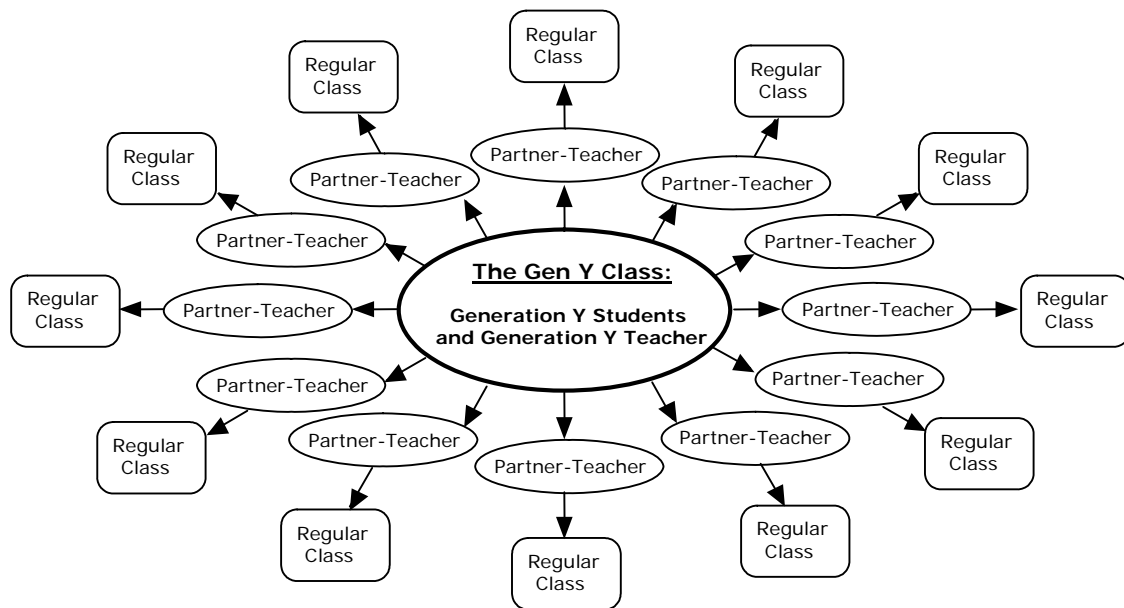
Data from the nationwide project indicate that the program can be an effective alternative for schools wishing to integrate technology into their regular curriculum and increase their use of project-based, student-centered learning practices. The model provides individualized support for educators who 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. Generation Y 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 Generation Y 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 Generation Y 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.

For those unfamiliar with the program, the term "partner-teacher" is used to refer to the classroom teachers who are each paired with a Generation Y 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 “Generation Y teacher” or “Generation Y coordinating teacher” refers to the teacher who works with all Generation Y students in a school, as they learn skills and knowledge through the course activities and design their projects with partner teachers. The GenY teacher also helps coordinate the relationships between the Generation Y students and their partner teachers, and facilitates the process of developing the collaborative projects. The core of the model is the Generation Y class and the process of developing the collaborative projects. The core of the model is the Generation Y class and the collaborative projects which GenY students and their partner teachers produce for students in the partner teachers' class, as depicted in Figure 1.

Figure 1. The Generation Y Class



Generation YES provides fully participating schools with the following:

- A training workshop for the Generation Y 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

The program includes a series of online surveys and online project documentation facilities for Generation Y teachers, Generation Y students, and the Partner Teachers who work with the Generation Y students. Data from these sources, collected during the 2004-2005 school year, are presented in the tables on the following pages.

Student Preliminary Survey Results

Students complete a preliminary survey when they register for the the Generation Y 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 1
Participating Generation Y Students by Gender**

Gender	Percentage of Students (of 162 reporting)
Male	43.2
Female	56.8

**Table 2
Participating Generation Y Students by Ethnicity**

Ethnicity	Percentage of Students (of 161 reporting)
Caucasian	86.3
African American	0.6
Hispanic	2.5
Asian	0.0
Pacific Islander	1.2
Native American/Native Alaskan	3.1
Other	6.2

**Table 3
Computer Access at Home by Generation Y Students**

At home do you have access to:	Yes	No
A computer	90.8	9.2
The Internet	79.8	20.2
Send and receive email	73.0	27.0

(percentages of approximately 170 reporting)

Table 4
Frequency of Computer Use by Generation Y 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	59.7	25.2	7.5	0.6	6.9
At school	58.7	36.8	2.6	1.9	0.0

(percentages of approximately 163 reporting)

Table 5
Student Experience With Computer and Technology Prior to Participating in Generation Y

How much experience have you had with the following:	None	Just a little	Some	A lot
Use word processing software	10.6	14.3	18.6	56.5
Search the Internet	2.5	5.6	14.8	77.2
Send and receive email	16.0	8.0	18.5	57.4
Use PowerPoint or other presentation software	13.7	21.7	28.0	36.6
Troubleshoot basic computer problems	31.1	26.1	26.7	16.1
Use a scanner to digitize a picture	32.9	21.7	19.9	25.5
Use a digital camera	12.4	14.3	23.6	49.7
Create a web page or web site	64.6	17.4	10.6	7.5
Touch-typing at least 15 words/minute	14.9	12.4	26.7	46.0

(percentages of approximately 161 reporting)

Table 6
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	71.4	5.0	13.0	3.1	7.5
Language Arts, Reading or English	24.2	13.0	34.2	10.6	18.0
Science	31.1	14.9	33.5	7.5	13.0
Social Studies, Geography or History	31.1	14.3	22.4	15.5	16.8

(percentages of approximately 161 reporting)

Student 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 7
Practice Gained in Computing Skills by Generation Y Students

During your work this semester as a Generation Y 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; more than 20 hours total
Using a keyboard to touch-type at least 15 words/min	7.3	20.0	22.7	21.8	28.2
Using word processing software	7.3	27.5	3.6	20.2	17.4
Searching the Internet	1.8	18.2	16.4	32.7	30.9
Sending and receiving e-mail	20.9	29.1	17.3	15.5	17.3
Using PowerPoint or other presentation software	6.4	16.4	20.9	23.6	32.7
Troubleshooting basic computer problems	33.6	32.7	18.2	9.1	6.4
Using a scanner to digitize a picture	32.7	35.5	14.5	10.0	7.3
Using a digital camera	10.0	29.1	18.2	23.6	19.1
Creating a Web page or Web site	69.1	10.0	8.2	8.2	4.5

(percentages of approximately 123 reporting)

Table 8
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:
GenY student created or updated a Web page that was used by my partner teacher's class	19.4	1.9
GenY student helped other students search the Web for information on a class topic	41.7	6.8
GenY student developed an educational presentation using PowerPoint, HyperStudio, or other software	86.4	57.3
GenY student taught technology skills to a teacher	72.8	15.5
GenY student taught technology skills to other students	65.0	9.7
Other	12.6	8.7

(percentages of approximately 103 reporting)

Table 9
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?	13.1	23.8	63.1

(percentages of approximately 84 reporting)

Table 10
Student Self-Assessments of Their Collaborative Projects

Mark the answer that best describes your experience in Generation Y:	Strongly Agree	Agree	Disagree	Strongly Disagree	Not sure, N/A
I completed my project.	54.6	31.5	4.6	3.7	5.6
I am proud of my project.	57.4	31.5	2.8	1.9	6.5
As a result of my project, other students learned about technology.	36.4	35.5	11.2	1.9	15.0
As a result of my project, other students learned about a subject (e.g. history, math, English, etc.)	38.0	30.6	7.4	8.3	15.7
The feedback about my project proposal I got online was helpful.	18.5	44.4	4.6	3.7	28.7
My partner-teacher's expectations of me were clear and realistic.	38.0	45.4	3.7	2.8	10.2
My partner-teacher was able to meet with me regularly.	30.6	39.8	19.4	2.8	7.4
My partner-teacher and I worked together well as a team.	40.7	39.8	5.6	3.7	10.2
Overall, Generation Y was a good experience.	70.4	23.1	0.9	1.9	3.7

(percentages of approximately 108 reporting)

Partner-Teacher Outcomes

At the end of each Generation Y class, participating Partner Teachers are asked to complete a survey about their experiences working with a GenY 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 11
Self-Assessed Change In Computer Use by GenY Partner Teachers

How has the frequency of the following changed as a result of your involvement with Generation Y?	More Frequently	Same Frequency	Less Frequently
You use computers to prepare for class, maintain class records, or do other school-related work.	42.3	57.7	0.0
You use computers for personal business, learning, or fun.	61.3	38.7	0.0
You use e-mail.	38.7	54.1	7.2
You use the World Wide Web.	55.0	45.0	0.0
Your students use computers during your classes.	58.6	39.6	1.8
Your students use computers outside of class to complete assignments for your class.	33.9	55.0	11.0

(percentages of approximately 112 reporting)

Table 12
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 Generation Y?	More comfortable	Same level of comfort	Less comfortable
Using computers	55.9	44.1	0.0
Integrating computers into the curriculum	48.6	49.5	1.8
Helping students use computers	45.9	54.1	0.0
Using e-mail	20.7	72.1	7.2
Using the World Wide Web	50.5	49.5	0.0

(percentages of approximately 112 reporting)

Table 13
Time Spent by Partner Teachers on Collaborative Projects

	2 hrs or less	3-5 hours	5-8 hours	> 8 hours
<i>Partner Teachers:</i> How much time, in total, did you spend working with your GenY student this semester?	17.1	30.6	27.0	25.2

(percentages of approximately 112 reporting)

Table 14
Partner Teacher Evaluations of the Generation Y 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.	71.2	28.8	0.0	0.0
My student-partner's project was of high quality.	59.5	40.5	0.0	0.0
I will use the lesson/Web page/presentation with which my student-partner helped in the future.	58.6	36.9	4.5	0.0
I would like to continue developing or refining this project in the future.	35.1	56.8	5.4	2.7
Choosing a project was relatively easy.	37.8	61.3	0.9	0.0
My role as a partner-teacher was clear to me.	39.6	56.8	3.6	0.0
As a consequence of Generation Y, I learned more about technology.	51.4	44.1	4.5	0.0
As a consequence of Generation Y, my students learned about technology.	61.3	31.5	7.2	0.0
As a consequence of Generation Y, my students learned about some content area.	45.9	50.5	3.6	0.0
Generation Y is a good method for providing support and assistance to teachers as they integrate technology into their classes.	66.7	26.1	7.2	0.0
My experience in Generation Y this semester will change the way I teach some lessons in the future.	66.7	26.1	7.2	0.0
I would like to work with another Generation Y student in the coming year.	35.9	48.5	15.5	0.0
I will continue rebuilding my lesson plans to make more use of educational technology.	58.3	36.9	4.9	0.0

(percentages of approximately 112 reporting)

Table 15
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 Generation Y, 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.	68.5	24.3	7.2	0.0	52.8	0.0	47.2
Technology facilitates positive changes in classroom teaching and learning practices.	55.3	42.7	1.9	0.0	61.1	0.0	38.9
I want to learn more about using new technologies.	56.4	43.6	0.0	0.0	57.6	3.0	39.4

(percentages of approximately 112 reporting)

Project Category List

Table 16
Classes/Audiences Served by Partner Teachers Who
Provided Evaluative Feedback on Generation Y Collaborative Projects

Project Category	Number	Percentage
Other	27	24.1
Social Studies	22	19.6
Technology	16	14.3
English/Language Arts	14	12.5
Science	14	12.5
Math	6	5.4
Visual Arts	5	4.5
Health/PE	3	2.7
No Area Indicated	3	2.7
Music	2	1.8

Project List

Table 17
Archived Collaborative Projects

School	Partner-Teacher	Project Name
Ashland High School	Anne Miller	William Faulkner PowerPoint Slideshow
Ashland High School	Julie Branham	Ashland High School Library Website
Ashland High School	Mr. Orthmann	Microsoft PowerPoint Autobiographical Portfolio Slideshow
Ashland Middle School	Aaron Mertig	Natural Disasters
Ashland Middle School	Ann Letko	Cooking for a Crowd PowerPoint
Ashland Middle School	Kaye Ortman-Peters	Famliy Tree
Ashland Middle School	Ms. Mika	The Executive Branches of Governement-Mini-Webquest
Bayfield School	B. DePerry	Solar System Exploration
Bayfield School	l Cameron	Bayfield History Using iMovie
Bayfield School	Mrs. Kouba	Graphing Excel Spreadsheets
Butternut School	Brenda Setterman	Types of Animals
Butternut School	Laurie Fox	Third Grade Solar System Science A PowerPoint Presentation
Butternut School	Lori Ernst	A Journey on the Mayflower
Butternut School	Mr. Miller	The New Weight Room
Butternut School	Mrs. Elkins	How to Put Microphone and Audio on a PowerPoint Presentation
Butternut School	Mrs. Ertl	Showing Acceleration
Butternut School	Ronda Dural	Foods Chains & Food Webs Using PowerPoint and Kidspiration
Drummond Elementary Scho		4th Grade iMovie
Drummond Elementary Scho	Amy Wiebusch	Appleworks Presentation Greek Mythology 6th Grade Overview Presentation
Drummond Elementary Scho	Carol Oravis	Chinasaurus Slideshow
Drummond Elementary Scho	Carol Reithel	All About Lungs An Appleworks Slideshow
Drummond Elementary Scho	Jack Iverson	Science In The Water- A Slide Show Presentation
Drummond Elementary Scho	Melissa Bonney	Pre-School Kid Pix
Drummond Elementary Scho	Mrs. Best	Learning About Inspiration
Drummond Elementary Scho	Mrs. Frasier	iPhoto: A Day in the Life of a Second Grader
Drummond Elementary Scho	Mrs. Olson	Kidspiration
Drummond Elementary Scho	Mrs. Oravis	Ecosystem Slideshow-An AppleWorks Slideshow
Drummond Elementary Scho	Skip Perkins	School Rules: an iMovie
Glidden High School		Greek vs. Roman Mythology: A PowerPoint Presentation
Glidden High School	Barb Hildebrandt	Kitchen Safety: 'Do's and Don'ts'
Glidden High School	Brian Long	What is Surrealism? An iMovie
Glidden High School	David Scherwinski	Teaching the Basics of Softball Using iMovie
Glidden High School	Doug McDougall	Power Equipment iMovie
Glidden High School	Douglas McDougall	Driver's Education (iMovie Presentation on Steps to Better Driving)
Glidden High School	Edward Busby	A PowerPoint Project on Influenza 1918
Glidden High School	Mark Luoma	Installing New eMacs to the Business Lab
Glidden High School	Mr. Brian Long	Photography 101 A PowerPoint Presentation
Glidden High School	Mr. Busby	A PowerPoint on the Bombing of Pearl Harbor
Glidden High School	Mrs. Tunison	Intoduction to Instruments - A PowerPoint Project
Glidden High School	Shawn Bonney	Hunter's Education iMovie
Hayward Intermediate Schoo	Brenda Keating	Drugs and Your Body - An iMovie
Hayward Intermediate Schoo	Charlene Kirchner	Science Curriculum Overview iMovie
Hayward Intermediate Schoo	Ken Vesel	Morning Routine iMovie
Hayward Intermediate Schoo	Isyverson	Our Morning Routine iMovie
Hayward Intermediate Schoo	Pat Andersen	Manners in the Lunchroom
Hayward Intermediate Schoo	Tim Gardner	iMovie Hayward Schools Core Values
Hayward Middle School	Judy Albrecht	A Game Guide for the H.L. Hunley Submarine Simulator Game

Hayward Middle School	Mrs. Bauer	PowerPoint Describing Recommended Accelerated Reader Books
Hayward Middle School	Mrs. Beckman	How to Complete an Author Report on PowerPoint
Hayward Middle School	Mrs. Lake	Computer Storage Vocabulary PowerPoint
Hayward Middle School	Mrs. Lake	PowerPoint Computer Vocabulary 7th Grade
Hayward Middle School	Ms. Lake	PowerPoint-Dictionary of Keyboard Parts
Hayward Middle School	Shellee Lake	A PowerPoint on the History of Computers
Hurley K-12 School	Mrs. Mary Ann Nicholls	A Third Grade Social Studies Lesson on Government; a Video and Webpage Project
Hurley K-12 School	Mrs. Pat Entler	Posters for Technology Standards-A PowerPoint Presentation
Hurley K-12 School	Mrs. Schenkenberg	Introduction to Occupations-A Microsoft PowerPoint Presentaton
La Pointe School	Carol Sowl	Barn Oral Histories iMovie
La Pointe School	Heidi McCowan	Heidi McCowan's Yeaching Portfolio
La Pointe School	Heidi McCowan	Professional PowerPoint Portfolio
La Pointe School	Ms. Carol Sowl	Desktop Publishing School Newspaper
La Pointe School	Ms. Sheri Milburn	Kidspiration Paragraph Development
Mellen School		Using Photoshop with Art Students
Mellen School	Cheryl Larson	A Portrait of Me - A KidPix Project
Mellen School	Milinda Colver	Sing-A-Long
Mellen School	Mr. Neibauer	Mellen History - A Movie
Mellen School	Mr. Ochsner	Creating Electronic Portfolio for English Students
Mellen School	Mr. Ochsner	Script-Writing with Hollywood High
Mellen School	Sheryl Hamilton	Countries Around the World - a Multimedia Presentation
Northern Lights Elementary	Jess Brozic	Step Up To Health
Northern Lights Elementary	Mrs. Smetak	Solar System PowerPoint
Northern Lights Elementary	Mrs. Winek	Make a Webquest
Northern Lights Elementary	Susan Kremer	Animal Slide Show
Northwestern Elementary	Beth Lindberg	Lively Lighthouses: A PowerPoint Presentation
Northwestern Elementary	Jeremy Bird	Wonderful Wisconsin PowerPoint Presentation
Northwestern Elementary	Rebekah Schultz	Marvelous Music: A PowerPoint Project
Northwestern Elementary	Steve Lahti	Exploring Ecosystems: A PowerPoint Presentation
Northwestern Middle School	Mr. Ketola	Northwestern Middle School Talent Show Video Production
Northwestern Middle School	Mrs. Bartman	Jumpstart to Sixth Grade PowerPoint
Northwood School	Brian Olson	Northwood Baseball Video
Northwood School	Denise Johansen	Welcome to Second Grade PowerPoint
Northwood School	Kari Eliason	'Surviving the Applewhites' PowerPoint Quiz
Northwood School	Mrs. Eliason	Novel Timeliner
Northwood School	Mrs. Nielcen	Animal Multiplication : A PowerPoint Math Game.
Park Falls Middle School	Ann Keif	Park Falls Middle School Final Finale PowerPoint
Park Falls Middle School	Ann Kief	Generation YES Orientation for the School Board
Park Falls Middle School	Dan Kilmore	U.S. Climate Regions
Park Falls Middle School	John Oswald	Park Falls Middle School and High School Sports PowerPoint
Park Falls Middle School	Mark Armstrong	Physical Education Orientation Slide Show
Park Falls Middle School	Mr. Pat Pollock	Mount St. Helens Eruption Slideshow
Park Falls Middle School	Mrs. Higgins	Reference Materials
Park Falls Middle School	Sharlene Gelina	Introduction to Keyboarding - A PowerPoint Slideshow
Park Falls Middle School	Steph Linsmeyer	Caribbean South America PowerPoint
Park Falls Middle School	Stephanie Ernst	Vikings- Origin and Accomplishments
South Shore Jr Sr High Scho	Frank Koehn	African PowerPoint Project About Chad
South Shore Jr Sr High Scho	Frank Koehn	Solar System
South Shore Jr Sr High Scho	Frank Koehn	Spirits Web Page
South Shore Jr Sr High Scho	Frank Koehn	The Nature of Nature
South Shore Jr Sr High Scho	Jayne Ellison	Spirts
South Shore Jr Sr High Scho	Mr. Koehn	Madagascar PowerPoint
South Shore Jr Sr High Scho	Ms. Burkett	Classification of Animals