

GST BOCES Model Schools

ITT

Instructional Technology for Teaching



Course Offerings

Fall 2010-2011

September 2010-January 2011

Registrations must be received by the
REGISTRATION DEADLINE: September 17, 2010

Check out our website: www.gstboces.org/iss/it

GST BOCES Instructional Technology Team

<http://www.gstboces.org/iss/it>

ITT COURSE REGISTRATION INSTRUCTIONS

1. GST BOCES can accept only those registrations forwarded to us by designated district contact persons authorized to give course approval. Registrations submitted by individual staff members will **not** be accepted. **Contact your district's staff development office for your district's registration procedure.**
2. **You are not registered for any course until you receive an ITT confirmation notice from BOCES by e-mail. Bring your confirmation notice with you to class.**
3. Letters of regret will be sent by e-mail if we cannot register you in a course.
4. **Confirmation and regret notices will be sent to your school e-mail address on or before September 24th.** If you have not received a confirmation notice or a letter of regret before your course, please call Kelli Edwards (739-3581, x 1504) at least one week prior to the course date to check your status. Please check your e-mail before calling.

If you must cancel your registration in an ITT class, please let us know as soon as possible by calling Kelli Edwards (739-3581, x 1504). Often, we can offer your seat to another person if we know of your cancellation well in advance.

Course Expectations

Successful completion of ITT classes:

- Meeting district requirements
- Satisfactory participation in workshop activities as determined by the instructor
- Completing all assigned tasks, including the expectations that may be listed in the course description

Required Core Courses/Skills – Windows in a Networked Environment; Word Module I; Outlook; or Core Pre-requisite course; and district approval.

Most courses require experience navigating the Web

Standards shown in course descriptions can be referenced at Nat'l Educational Technology Standards (NETS) for Teachers:

http://cnets.iste.org/teachers/t_stands.html (NETS) for Students: http://enets.iste.org/students/s_stands.html





*innovation in creating student success
through cooperative services*





Course Levels:

Our Model Schools ITT offerings are designed to support teacher learning at four general stages of technology and integration skill development. Teachers should select the sessions that best meet their needs:

: **Foundation.** For teachers seeking to develop a working knowledge of basic technology skills and associated standards-based teaching practices

: **Application.** For teachers with basic technology and integration skills who wish to learn more meaningful, standards-based technology integration strategies. These courses reinforce the basics while teaching how to apply technology in the classroom to improve personal productivity and integration of instructional technology strategies.

: **Advanced Study.** For teachers with experience implementing standards-based educational technology integration using a variety of software, online tools, etc. These courses provide opportunities to engage in thorough exploration of technology as it relates to student learning and specific instructional strategies.

: **Coaching.** For expert teachers and administrators. These courses provide a framework and strategies to guide educational-technology coaching and instructional leadership.



Helpful Information:

[Directions to the Instructional Support Center](#)

[ISTE-NETS Standards](#)

Model Schools Core Pre-Requisite Course (Word/ Web/ Windows/ E-mail)

 **Foundation**

Date/Time:

9/21/10	3:30- 6:30pm
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Location:	Corning- Painted Post Charles St. Conference Rm.
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Training Hours: 3

Audience:

PreK-12 Instructional Staff

NETS Standards for

Teachers: 3, 4

Format: Workshop

Description:

This course will satisfy all four **core** pre-requisites for GST BOCES' Model Schools ITT classes. Once this course is completed, participants can sign up for all introductory courses in the Model Schools brochure. Participants will learn strategies for using the GST BOCES network, e-mail, Microsoft Word, Windows, and the web to enhance instruction and personal productivity

- **Participants who have already completed core pre-requisite training in previous years do not need to take this course**
- **Please note that many advanced classes have additional pre-requisites. Check each course description carefully to learn more about these requirements.**

As a result, participants will learn:

- Windows basics, Network drives, and how to use the network to enhance instruction
- File management skills and how to find files
- Microsoft Word basics and strategies for using it in the classroom
- To use e-mail to improve communication and enhance personal productivity

Pre-assessment for Windows in a Networked Environment

 **Foundation**

Dates: 10/1/10-1/31/11 ONLINE

Audience:
PreK-12 Instructional Staff

Format: Self-Directed Online Assessment

Description:

This is an online pre-assessment module to determine if the participant can test out of the required Core Curriculum session.

This assessment helps to fulfill core pre-requisite requirements.

Pre-assessment for MS Word – Module I

 **Foundation**

Dates: 10/1/10-1/31/11 ONLINE

Audience:
PreK-12 Instructional Staff


Format: Self-Directed Online Assessment

Description:


This is an online pre-assessment module to determine if the participant can test out of the required Core Curriculum session.

This assessment helps to fulfill core pre-requisite requirements.

Creating Classroom Audio Projects with Audacity

<p> Application</p> <p>Date/Time:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">1/19/11</td> <td style="width: 50%; text-align: center;">3:30-6:30pm</td> </tr> <tr> <td>Location:</td> <td>Bush Campus Building 11 Computer Lab</td> </tr> </table> <p>Audience: PreK-12 Instructional Staff</p> <p>NETS Standards: Teacher: 1, 2, 3, 4 Student: 1, 2, 5, 6</p>	1/19/11	3:30-6:30pm	Location:	Bush Campus Building 11 Computer Lab	<p>Format: Workshop</p> <p>Description: Have you ever needed to create your own audio files, and wished you knew how? Do you wish you had a more creative way for your students to complete projects? Audacity is a free program that can be used to create audio files. Learn how to record, edit, and enhance audio files for use in your classroom.</p> <hr/> <p>As a result, participants will learn:</p> <ul style="list-style-type: none"> • To record and edit original audio files • To use special effects to enhance audio projects • Best practices of media production
1/19/11	3:30-6:30pm				
Location:	Bush Campus Building 11 Computer Lab				

Creating & Uploading Podcasts (PC)

<p> Advanced Study</p> <p>Dates/Times:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">1/26 AND 1/27/11</td> <td style="width: 50%; text-align: center;">3:30-6:30pm</td> </tr> <tr> <td>Location:</td> <td>Bush Campus Building 11 Computer Lab</td> </tr> </table> <p>Audience: PreK-12 Instructional Staff</p> <p>NETS Standards: Teacher: 1, 2, 3, 4, 5 Student: 1, 2, 3, 4, 6</p>	1/26 AND 1/27/11	3:30-6:30pm	Location:	Bush Campus Building 11 Computer Lab	<p>Format: Workshop</p> <p>Description: The purpose of this course is to help participants learn strategies for developing podcasts. We'll learn how to script a podcast, and the software to use to record and upload podcasts to the web. Discover ways to integrate them into the curriculum, and learn strategies for teaching students media literacy skills associated with podcasting. We will discuss copyright and safety issues associated with podcasting, as well.</p> <hr/> <p>As a result, participants will learn:</p> <ul style="list-style-type: none"> • To use SourceForge's Audacity to create an Audio Podcast • How to script a podcast • To upload their Podcast to the web • Strategies for using this emerging technology across the PreK-12 Curriculum <p style="text-align: center; background-color: yellow;">**Participants are expected to attend all 6 hours to receive credit**</p>
1/26 AND 1/27/11	3:30-6:30pm				
Location:	Bush Campus Building 11 Computer Lab				

GoogleDocs for Teachers

Foundation

Date/Time:

10/6/10	3:30-6:30pm
Location:	Bush Campus Building 11 Computer Lab

Training Hours: 3

Audience: Pre K - 12 Instructional Staff

NETS Standards:
Teacher: 1, 3, 4, 5

Format: Workshop

Description: Learn how to use GoogleDocs, a free Google Tool that allows you to share documents, spreadsheets, and presentations, and edit them simultaneously with others. These online tools would be very useful for teachers who need to meet asynchronously because they can't find common planning time.

As a result, participants will learn:

- To post and edit documents on GoogleDocs
- To use GoogleDocs to create forms to be shared with students and colleagues
- To use GoogleDocs as a tool to plan meetings, units, and videoconference collaborations

Google Earth in the Classroom

Application

Date:

11/16 AND 11/18/10	3:30-6:30pm <u>Both days</u>
Location:	Bush Campus, Building 11 Computer Lab

Training Hours: 6

Audience:
Pre-K-12 Instructional Staff

NETS Standards for Teachers: 1, 2, 3, 5

Students: 1, 2, 3, 4, 6

Format: Workshop

Description:

Where do you want to take your class today? Use Google Earth to virtually tour the world and create visually interesting lessons for your students.

Google Earth allows you go anywhere on Earth and the solar system to view satellite imagery, maps, terrain, buildings, constellations, planets and moons, and the ocean.


Participants will learn basic and intermediate components of the program to create their own "Google Tour" on a topic of interest to share with their students.

As a result, participants will learn:


- To tour the Google Earth window and learn how to navigate, search, place-marking, sightseeing, switching views
- How to use layers, enhance place-markers with embedded imagery and video, creating and saving their own "Google Tour"
- To use skills learned to create a lesson for use in the classroom

****Participants are expected to attend all 6 hours to receive credit****

Google Forms in the Classroom

 Application		Format: Workshop				
Date: <table border="1"> <tr> <td>10/20 AND 10/21/10</td> <td>3:30- 6:30pm Both days</td> </tr> <tr> <td>Location:</td> <td>Bush Campus, Building 11 Computer Lab</td> </tr> </table>		10/20 AND 10/21/10	3:30- 6:30pm Both days	Location:	Bush Campus, Building 11 Computer Lab	Description: Google Forms and Spreadsheets can be accessed from anywhere and shared in real time, offering a wide variety of ways to use them with your students. Participants in this class will learn to create and share forms to conduct surveys, have students select projects, collect data, and more. We'll also explore Google Spreadsheets as a tool for taking collaborative notes or gathering data collaboratively. We will learn how to embed and share spreadsheets and forms, and discuss strategies for using them across the curriculum.
10/20 AND 10/21/10	3:30- 6:30pm Both days					
Location:	Bush Campus, Building 11 Computer Lab					
Training Hours: 6 Audience: Pre-K-12 Instructional Staff NETS Standards for Teachers: 1, 2, 3, 5 Students: 1, 2, 3, 4, 6		As a result, participants will: <ul style="list-style-type: none"> • Make a Google Form and learn about question types • Share form and/or resulting spreadsheet • Locate and analyze data (form answers) • Learn basics for using Google Spreadsheets • Discover strategies for using forms and spreadsheets in the classroom <p style="text-align: center;">**Participants are expected to attend all 6 hours to receive credit**</p>				

Making Sense of Web 2.0

 Application		Format: Workshop				
Date/Time: <table border="1"> <tr> <td>10/27/10</td> <td>3:30- 6:30pm</td> </tr> <tr> <td>Location:</td> <td>Bush Campus Building 11 Computer Lab</td> </tr> </table>		10/27/10	3:30- 6:30pm	Location:	Bush Campus Building 11 Computer Lab	Description: "The Social Web." "Web 2.0." Perhaps you've heard these terms and wondered exactly what they mean or represent. You've probably noticed that the Web has changed a lot over the last few years--more interaction, more, content, more everything! Making sense of things like social bookmarking, social networks, blogs, and photo- and video-sharing sites, let alone incorporating these into instruction, can seem like a full-time job. Come along as we explore sites (like flickr, del.icio.us, and teachertube, to name a few) and learn practical, responsible ways to use what they have to offer.
10/27/10	3:30- 6:30pm					
Location:	Bush Campus Building 11 Computer Lab					
Training Hours: 3 Audience: PreK-12 Instructional Staff NETS Standards for Teachers: 1, 2, 3, 4, 5 Students: 1, 2, 3, 4, 5, 6		As a result, participants will learn: <ul style="list-style-type: none"> • to utilize appropriate Web 2.0 tools in their classroom • to construct lessons and projects that help students use Web 2.0 resources responsibly • to find web resources that contribute to their own professional development 				

Presentation Pizzazz with Prezi

Application

Date/Time: Choose **only one date:**

11/4/10	3:30-6:30pm
Location:	Watkins Glen HS Computer Lab
1/24/11	3:30-6:30pm
Location:	Bush Campus Building 11 Computer Lab

Training Hours: 3

Audience: Pre-K – 12
Instructional Staff

NETS Standards:

Teacher: 1, 2, 3

Student: 1, 2, 3, 6

Format: Workshop

Description: Are you and your students over-saturated with PowerPoint? Are you looking for new ways to present information in an appealing and engaging manner? In this course you'll learn to use Prezi, a free, web-based program, to make multimedia presentations that can incorporate text, images, PDFs, and video. You and your students will "take it to the next level" with the powerful presentations you'll build in Prezi!

As a result, participants will learn:

- How to manipulate the objects you put on the canvas
- How to save presentations both online and by download
- To utilize the Bubble Menu and the Transformation Zebra

ToolboxPro – Level I



Advanced Study

Date/Time: Choose ***only one set of dates:***

10/12, 10/14, 10/19, AND 10/21/10	3:30- 6:30pm <u>all four</u> <u>days</u>
Location:	Horseheads High School rm. 260
11/8, 11/9, 11/15, AND 11/16/10	3:30- 6:30pm <u>all four</u> <u>days</u>
Location:	Watkins Glen HS Computer Lab

Audience:
Grades K-12 Instructional
Staff who have access to
ToolboxPro

Training Hours: 12

NETS Standards for
Teachers: 1, 2, 3, 4, 5
Students: 1, 2, 3, 4, 5, 6

Format: Workshop

Description:

Toolbox Pro is an LMS (Learning Management System) which allows teachers to have an online classroom. With Toolbox Pro teachers can create: 1) a classroom website and manage student grades, 2) online media-rich assessments and activities, 3) a collection of documents and resources for students to use in class and for homework.

As a result, participants will learn:

- The basics about creating an online classroom
- How to utilize ToolboxPro to manage assignments and post resources
- To plan lessons and assignments that use online content

**** Participants are expected to attend all 12 hours to receive credit ****

ToolboxPro – Level II



Advanced Study

Date:

10/25 AND 10/28/10	3:30- 6:30pm <u>Both days</u>
Location:	Horseheads High School rm. 260

Audience: Grades K-12
Instructional Staff who
have access to ToolboxPro

Training Hours: 6

NETS Standards:

Teacher: 1, 2, 3, 4, 5

Student: 1, 2, 3, 4

Prerequisites:

ToolboxPro—Creating
Classes, Resources, and
Activities

Format: Workshop

Description: The purpose of this class is to explore more of the curriculum tools in ToolboxPRO. In this class, we will learn about the “Lessons”, advanced testing strategies and techniques, voice recording, “Webblockers”, student email, and the concept of the online classroom.


****Participants are expected to attend all 6 hours to receive credit****

Participants should be well-versed in creating “activities” and “resources”.

As a result, participants will learn:


- How to create lessons
- How to post their curriculum online (including whiteboard content)
- Advanced features of creating tests, including importing questions.

ToolboxPro - Using the Website to Facilitate Home-School Communication

 Application		Format: Workshop		
Date/Time: <table border="1"> <tr> <td>10/28 AND 11/2/10</td> <td>3:30-6:30pm Both days</td> </tr> </table>		10/28 AND 11/2/10	3:30-6:30pm Both days	Description: This course will focus on creating a Website in <i>ToolboxPro</i> to facilitate home-school communication. A few tools will be introduced to enhance the site: announcements, a calendar, an email & mailing list link, uploading pictures, and linking to other documents or sites.
10/28 AND 11/2/10	3:30-6:30pm Both days			
Location: Bush Campus, Building 11 Computer Lab				
Training Hours: 6		<hr/> As a result, participants will learn: <ul style="list-style-type: none"> To use the menus and the 'bread crumb trail' To create an inviting and useful tool to connect school and home How to create activities and games to attach to your website 		
Audience: Pre-K-12 Instructional Staff				
NETS Standards for Teachers: 1, 2, 3, 4, 5 Students: 1, 2, 3, 4				

****Participants are expected to attend all 6 hours to receive credit****

Using Digital Images to Create Classroom Projects

 Foundation		Format: Workshop		
Date: <table border="1"> <tr> <td>11/9/10</td> <td>3:30-6:30pm</td> </tr> </table>		11/9/10	3:30-6:30pm	Description: Create classroom projects such as books, secure photo websites, and more by using digital images and an online application such as Shutterfly or Snapfish.
11/9/10	3:30-6:30pm			
Location: Bush Campus, Building 11 Computer Lab				
Training Hours: 6		<hr/> As a result, participants will learn: <ul style="list-style-type: none"> Simple photo editing to manipulate size, cropping, etc. How to upload photos to a storage site To use photos to create different projects 		
Audience: Pre-K-12 Instructional Staff				
NETS Standards for Teachers: 1, 2, 3 Students: 1, 2, 3				

Using Google Apps for Education

Foundation

Date/Time:

1/5 AND 1/6/11	3:30-6:30pm <u>Both Days</u>
Location:	Bush Campus Building 11 Computer Lab

Training Hours: 6

Audience: Pre K - 12
Instructional Staff

NETS Standards:

Teacher: 1, 3, 4, 5

Student: 1, 2, 3, 4, 5, 6

Format: Workshop

Description: In this course, we will explore the use of Calendar, Google Earth, Sites, Notebook, Special Searches, Video, Scholar, Reader and their uses in the classroom.

As a result, participants will learn:

- to use Google Apps to collaborate with their colleagues
- to use Google Apps to enhance instruction

****Participants are expected to attend all 6 hours to receive credit****

VoiceThread in the Classroom

Application

12/20/10	3:30- 6:30pm
Location:	Bush Campus Building 11 Computer Lab

Training Hours: 3

Audience:
Grades 2-12 Instructional Staff

NETS Standards for

Teachers: 1, 2, 3, 4, 5

Students: 1, 2, 3, 4, 5, 6

Format: Workshop

Description:

Whether used as an online group discussion tool, a presentation tool, or an assessment tool, VoiceThread gives users the ability to create, share and collaborate using text, images, audio and/or video. Come and learn the basics of using this free online tool and contribute to creating a VoiceThread project with your fellow workshop participants.

As a result, participants will learn:

- creative ways to use online collaboration in the classroom
- how to extend learning beyond the classroom
- appropriate uses of multiple media types in collaborative projects

Xtranormal: Create 3-D Movies to Engage the Modern Learner

Application

Date/Time: Choose only one:

11/3/10	3:30-6:30pm
Location:	Bush Campus Building 11 Computer Lab
12/1/10	3:30-6:30pm
Location:	Bush Campus Building 11 Computer Lab

Training Hours: 3

Audience:

Grades 2-12 Instructional Staff

NETS Standards for

Teachers: 1, 2, 3, 4, 5

Students: 1, 2, 3, 4, 5, 6

Format: Workshop


Description:

Xtranormal is an online tool that allows the user to create a 3-D video in a virtual world by typing in dialogue and adding gestures...that's it! You don't need any advanced computer skills to make these movies. Xtranormal's revolutionary approach to movie-making builds on an almost universally held skill—typing. You type something, they turn it into a movie. On the web and on the desktop.

As a result, participants will learn:

- utilize the internet to create a movie for class content
- learn how to upload these movies to other online locations

Interactive Whiteboards: ActivInspire Basics

 Foundation		Format: Workshop
Training Hours: 6		Description: Did you just receive an interactive whiteboard? Would you like to learn how to use the software that goes with it? Participants will learn basic skills necessary for using a Promethean Board and ActivInspire (the software that comes with the board). An overview of the essential ActivInspire tools will help you start creating simple, yet engaging, activities for your students. Time will be given to work with the board and the software to practice new skills learned during this 6 hour class.
Date/Time: Choose <i>only one set of dates:</i>		
9/23 and 9/30/10	3:30-6:30pm	
Location:	Prattsburgh School Computer Lab	
10/5 AND 10/7/10	3:30-6:30pm <u>Both Days</u>	
Location:	Bush Campus Building 11 Computer Lab	
Audience: Pre K - 12 Instructional Staff		<hr/> As a result, participants will learn: <ul style="list-style-type: none"> • How to turn equipment on and off • How to calibrate • Main Toolbox tools • Opening, saving and printing flipcharts
NETS Standards: Teacher: 1, 2, 3 Student: 2, 4, 6		<p style="text-align: center;">**Participants are expected to attend all 6 hours to receive credit**</p> <p style="text-align: center;">NOTE: If you have taken "Get in Touch with Interactive Whiteboard II, YOU SHOULD <u>NOT</u> TAKE THIS CLASS.</p>

Interactive Whiteboards: ActivInspire Basics-Extension

Application

Training Hours: 3

Date/Time:

10/14/10	3:30-6:30pm
Location:	Bush Campus, Building 11 Computer Lab

Audience: Pre K - 12 Instructional Staff who have taken Level 1, 2, or ActivStudio Basics or ActivInspire Basics

NETS Standards:

Teacher: 1, 2, 3

Student: 2, 4, 6

Format: Workshop

Description:

Apply and extend the skills you learned in Interactive Whiteboards: ActivStudio Basics, ActivInspire Basics or Get in Touch with Interactive Whiteboards Levels I and II, by developing a flipchart related to your own content area. Participants will receive guided assistance from an instructor.

NOTE: This course is taught using a Promethean ACTIVboard and ActivInspire software.

As a result, participants will learn:

- Best practices of flipchart development
- Strategies for incorporating interactivity into flipcharts
- Where to share flipcharts

Please bring curriculum materials to develop or enhance your own flipchart.

Interactive Whiteboards: Intermediate ActivInspire Skills



Advanced Study

Training Hours: 6

Date/Time: Choose only one set of dates:

10/19 AND 10/26/10	3:30-6:30pm <u>Both Days</u>
Location:	Bush Campus, Building 11 Computer Lab
12/2 AND 12/16/10	3:30-6:30pm <u>Both Days</u>
Location:	Bush Campus, Building 11 Computer Lab
12/2 AND 12/16/10	3:30-6:30pm <u>Both Days</u>
Location:	Prattsburgh School Computer Lab via videoconference

Audience: Pre K - 12
Instructional Staff who have
taken Level 1, 2, or
ActivStudio Basics or
ActivInspire Basics

NETS Standards:

Teacher: 1, 2, 3

Student: 2, 4, 6

Format: Workshop

Description:

Now that you regularly incorporate basic whiteboard tools into your lessons, learn how to extend your knowledge of ActivInspire software. Explore a wealth of resources in ActivInspire, such as backgrounds, images, sounds, activities, and ready-made flipcharts. Discover the Resource Browser and how to customize ActivInspire Settings. Participants will also learn tips and tricks for making flipcharts fantastic!

NOTE: This course is taught using a Promethean ACTIVboard and ActivInspire software.

As a result, participants will learn:

- To explore and utilize resources
- To adjust Inspire settings
- Magic Revealers
- Tickertapes
- Tips & Tricks: 3rd Column Main Toolbox, Page Notes....

****Participants are expected to attend all 6 hours to receive credit****

NOTE: If you have taken "Get in Touch with Interactive Whiteboard III, YOU SHOULD NOT TAKE THIS CLASS.

Interactive Whiteboards: Intermediate ActivInspire Skills - Extension

Application

Training Hours: 3

Date/Time:

11/4/10	3:30- 6:30pm
Location:	Bush Campus, Building 11 Computer Lab

Audience: Pre K - 12
Instructional Staff who
have taken Level 1, 2, or
Intermediate ActivStudio
Skills

NETS Standards:

Teacher: 1, 2, 3

Student: 2, 4, 6

Format: Workshop

Description:

Apply and extend the skills you learned in Interactive Whiteboards: Intermediate ActivStudio Skills, ActivInspire Skills, or Get in Touch with Interactive Whiteboards Levels II and III, by developing a flipchart related to your own content area. Participants will receive guided assistance from an instructor.

NOTE: This course is taught using a Promethean ACTIVboard and ActivInspire software.

As a result, participants will learn:

- Best practices of flipchart development
- Strategies for incorporating interactivity into flipcharts
- Where to share flipcharts

Please bring curriculum materials to develop or enhance your own flipchart.

Interactive Whiteboards Advanced Skills: Containers, Restrictors & Actions

 **Advanced Study**

Training Hours: 6

Date/Time:

12/7 AND 12/14/10	3:30- 6:30pm <u>Both Days</u>
Location:	Bush Campus, Building 11 Computer Lab

Audience: Pre K - 12
Instructional Staff

NETS Standards:

Teacher: 1, 2, 3

Student: 2, 4, 6

Format: Workshop

Description:

Containers, restrictors and actions are three ways that you can enhance your flipcharts, making them fun and interactive for your students. Participants will work with advanced actions in ActivInspire or create containers to sort objects into categories, to restrict movement of objects on a flipchart page, and add actions to hide or reveal objects on the flipchart page or to manipulate other objects on a page.

NOTE: This course is taught using a Promethean ACTIVboard and ActivInspire software.

As a result, participants will learn:

- To modify Object Properties with the Object Browser
- Strategies for using containers, restrictors, and actions in flipcharts
- To enable/disable actions while working with Actions

****Participants are expected to attend all 6 hours to receive credit****

Interactive Whiteboards: Promethean Planet/Resource Library: ActivResources

Application

Training Hours: 3

Date/Time:

1/20/11	3:30-6:30pm
Location:	Bush Campus, Building 11 Computer Lab

Audience: Pre K - 12 Instructional Staff

NETS Standards:

Teacher: 1, 2, 3

Student: 2, 4, 6

Format: Workshop

Description:

Create an account with Promethean Planet and discover how to participate in this online professional community. Learn to locate, download, and edit flipcharts you find on the Planet; view lessons by other educators; download, organize and use Resource Packs; and more. Participants also will explore the Resource Browser and learn how to use resources; search for and add resources to the Resource Library.

NOTE: This course is taught using a Promethean ACTIVboard and ActivInspire software.

As a result, participants will learn:

- To discover Promethean Planet and create an account
- To locate, download and edit flipcharts
- About copyright associated with resources and flipcharts
- Studio Settings for the Resource Library

ActiVotes and ActivExpressions: Assessment for the Ages

Foundation

Date/Time: Choose ***only one date:***

10/21/10	3:30-6:30pm
Location:	Prattsburgh School Computer Lab
12/6/10	3:30-6:30pm
Location:	Bush Campus, Building 11 Computer Lab

Training Hours: 3

Audience: Pre-K – 12
Instructional Staff

NETS Standards:

Teacher: 1, 2, 3, 5

Student: 4, 6

Format: Workshop

Description: Are you ready to start using the ActiVotes in that strange silver suitcase, or the ActivExpressions in the black softcase with your students? This course will help you demystify the process of using these powerful instructional tools. You'll learn how to register, troubleshoot, and use them effectively in your classroom, and how to customize the settings so they work well for your students.

NOTE: This course is taught using Promethean ActivInspire software and hardware

As a result, participants will learn:

- How to register voting devices
- To create and edit different types of questions using the Question Wizard
- How to create and use ad hoc questions
- To create self-paced assessments

SMART Board Basics

Foundation

Date/Time:

10/14/10	3:30-6:30pm
Location:	Bush Campus, Building 7, room 702

Training Hours: 3

Audience: PreK-12
Instructional Staff who are using a SMART Interactive Whiteboard

Prerequisites:
Core pre-requisite classes

NETS Standards:

Teacher: 1, 2, 3

Student: 2, 4, 6

Format: Workshop

Description:

An overview of the essential SMART tools will help you begin creating simple, yet engaging notebook activities for your students. Time will be given to work with the SMART Board and software and practice new skills acquired during this 3 hour class.

NOTE: This course is taught using a SMART Board and Version 10 Notebook software.

As a result, participants will learn:

- how to Orient the SMART Board
- to use Notebook toolbars
- to modify objects and capture images
- to apply and Save Ink Aware to existing Word Documents, Excel, and PowerPoints
- explore Essentials for Educators

Introduction to Adobe Photoshop CS3



Advanced Study

Dates/Times:

9/27, 9/28, 9/30, 10/4, AND 10/7/10	3:30- 6:30pm All Four Days
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Location:	Horseheads High School rm. 154
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Training Hours: 15

Audience: PreK-12
Instructional Staff

NETS Standards:

Teacher: 1, 2, 3, 4, 5
Student: 1, 2, 3, 4, 5

Format: Workshop

Description:

Photoshop is ideal for teachers who have an interest in photography, or just want to be creative with graphics and web design.

As a result, participants will learn:

- The basics of Photoshop to get you started.

NOTE: This is an intensive course with a substantial learning curve. It is intended for computer users with advanced skills.

PhotoShop is not part of the standard software installed on your classroom computer. To derive the greatest benefit from this intensive course, please make prior arrangements with your administrator or technology coordinator to acquire the software for your use after you have completed the course.

****Participants are expected to attend all 15 hours to receive credit****

'Inspiration' Build Strong Thinking Skills with Visual Learning



Application

11/8/10	3:30- 6:30pm
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Location:	Bush Campus, Building 11 Computer Lab
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Training Hours: 3

Audience: Grades 3-12
Instructional Staff

NETS Standards:

Teacher: 1, 2
Student: 1, 3, 4

Format: Workshop

Description:

Inspiration software is a powerful tool for students and teachers, enabling easy creation of outlines, concept maps, web maps, flowcharts, storyboards, bubble diagrams, and much more. It is effective for planning and implementing classroom curriculum. Participants will create a product appropriate for their area of expertise.

As a result, participants will learn:

- To use Inspiration's toolbars, menu, and symbol palette
- Outline View vs. Diagram View
- To create a graphic organizer
- To locate and edit existing templates within the program
- Ways to integrate this software across the curriculum

LOTE Teacher Technology Users' Group: ToolboxPro Lessons for LOTE

 **Foundation**

11/10/10	3:30- 5:30pm
Location:	Bush Campus, Building 11, Large Conference Room

Training Hours: 2

Audience: Middle and High School LOTE Teachers

Prerequisites:

ToolboxPro Level I, Core pre-requisites, district approval

NETS Standards:

Teacher: 1, 2, 3, 4, 5

Student: 3, 4, 6

Format: Workshop


Description:

Training will be geared specifically for teachers of LOTE (Languages Other Than English) who use technology in their classroom and would like to learn new techniques for making their lessons and activities through the use of technology.


As a result, participants will:

- Learn how to create lessons for their LOTE classroom
- Use Activities, Resources, Images, and the Forum to create multimedia lessons
- Discover new ways to increase interactivity in the classroom

LOTE Teacher Technology Users' Group: Introducing Vocabulary: Interactive Whiteboard, ToolboxPro, and Prezi

<p> Foundation</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <tr> <td style="width: 15%; padding: 5px;">12/8/10</td> <td style="padding: 5px;">3:30-5:30pm</td> </tr> <tr> <td style="padding: 5px;">Location:</td> <td style="padding: 5px;">Bush Campus, Building 11, Large Conference Room</td> </tr> </table> <p>Training Hours: 2</p> <p>Audience: Middle and High School LOTE Teachers</p> <p>Prerequisites: Basic and Intermediate ActivInspire, ToolboxPro, Core pre-requisites, district approval</p> <p>NETS Standards: Teacher: 1, 2, 3, 4, 5 Student: 3, 4, 6</p>	12/8/10	3:30-5:30pm	Location:	Bush Campus, Building 11, Large Conference Room	<p>Format: Workshop</p> <p>Description: Training will be geared specifically for teachers of LOTE (Languages Other Than English) who use technology in their classroom and would like to learn new techniques for making their lessons and activities through the use of technology.</p> <hr style="border: 1px solid black; margin: 10px 0;"/> <p>As a result, participants will:</p> <ul style="list-style-type: none"> Explore various techniques to introduce vocabulary for the first time Learn to import pictures and hyperlink to websites Create speaking activities on ToolboxPro
12/8/10	3:30-5:30pm				
Location:	Bush Campus, Building 11, Large Conference Room				

LOTE Teacher Technology Users' Group: Games for the Foreign Language Class

<p> Foundation</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <tr> <td style="width: 15%; padding: 5px;">1/12/11</td> <td style="padding: 5px;">3:30-5:30pm</td> </tr> <tr> <td style="padding: 5px;">Location:</td> <td style="padding: 5px;">Bush Campus, Building 11, Large Conference Room</td> </tr> </table> <p>Training Hours: 2</p> <p>Audience: Middle and High School LOTE Teachers</p> <p>Prerequisites: Core pre-requisites, district approval</p> <p>NETS Standards: Teacher: 1, 2, 3, 4, 5 Student: 3, 4, 6</p>	1/12/11	3:30-5:30pm	Location:	Bush Campus, Building 11, Large Conference Room	<p>Format: Workshop</p> <p>Description: Training will be geared specifically for teachers of LOTE (Languages Other Than English) who use technology in their classroom and would like to learn new techniques for making their lessons and activities through the use of technology.</p> <hr style="border: 1px solid black; margin: 10px 0;"/> <p>As a result, participants will:</p> <ul style="list-style-type: none"> Explore how to use templates Create interactive speaking games Create vocabulary review activities and games
1/12/11	3:30-5:30pm				
Location:	Bush Campus, Building 11, Large Conference Room				

Mathletes: Technology Users' Group for Math Teachers

Topic: Algebra with Nspire

 **Foundation**

Date/Time:

10/13/10	3:30- 5:30pm
Location:	Elmira Free Academy rm. 227

Training Hours: 2

Audience: Middle and High School Math Teachers

NETS Standards:

Teacher: 1, 2, 3

Student: 1, 3, 4, 5, 6

Format: Workshop

Description:

In this session, participants will explore all levels of Algebra within the TI-Nspire calculator. Participants will learn how to perform calculations from previous TI graphing calculators in the Nspire format, as well as new methods. We will explore templates, and basic navigation skills to ensure an easier implementation of the Nspire technology into the everyday math classroom. Various algebra skills needed from previous state assessments will be explored on the Nspire as well.

NOTE--each Users' Group session is independent,
so you may register for more than 1 session.

As a result, participants will:

- Explore the features of Nspire software that assist with teaching algebra
- Share and discuss successes and challenges experienced with integrating technology into the math classroom
- Build a collegial network of technology users

Mathletes: Technology Users' Group for Math Teachers

Topic: Graphing with Nspire

Foundation

Date/Time:

11/10/10	3:30- 5:30pm
Location:	Elmira Free Academy rm. 227

Training Hours: 2

Audience: Middle and High
School Math Teachers

NETS Standards:

Teacher: 1, 2, 3

Student: 1, 3, 4, 5, 6

Format: Workshop

Description:

In this session, participants will explore graphing functions of all levels with the TI Nspire calculator. Participants can expect to gain the skills necessary to take previous graphing functionality and translate to the TI Nspire format. We will explore previous graph functionality as well as exploring new methods of graph calculations to ensure confidence when introducing TI Nspire into your math classroom. Various graph skills from previous state assessments will be explored as well.

NOTE--each Users' Group session is independent,
so you may register for more than 1 session.

As a result, participants will:

- Explore the graphing features available in Nspire software
- Share and discuss successes and challenges experienced with integrating technology into the math classroom
- Build a collegial network of technology users

Mathletes: Technology Users' Group for Math Teachers

Topic: Statistics with Nspire

Foundation

Date/Time:

12/8/10	3:30-5:30pm
Location:	Elmira Free Academy rm. 227

Training Hours: 2

Audience: Middle and High School Math Teachers

NETS Standards:

Teacher: 1, 2, 3

Student: 1, 3, 4, 5, 6

Format: Workshop

Description:

In this session, participants will explore data collection as well as statistical analysis within TI Nspire calculators. Participants will learn how to perform previous statistical tests and analysis within the TI Nspire format. We will explore previous methodologies as well as explore new avenues that Nspire calculators offer for data analysis. Overall, participants should learn necessary skills to successfully integrate statistical analysis via Nspire technologies into the math classroom.


NOTE--each Users' Group session is independent, so you may register for more than 1 session.

As a result, participants will:

- Explore the features of Nspire software that assist with teaching statistics
- Share and discuss successes and challenges experienced with integrating technology into the math classroom
- Build a collegial network of technology users

Mathletes: Technology Users' Group for Math Teachers

Topic: Nspire in Your Classroom

<p> Foundation</p> <p>Date/Time:</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <tr> <td style="padding: 2px 5px;">1/12/11</td> <td style="padding: 2px 5px;">3:30-5:30pm</td> </tr> <tr> <td style="padding: 2px 5px;">Location:</td> <td style="padding: 2px 5px;">Elmira Free Academy rm. 227</td> </tr> </table> <p>Training Hours: 2</p> <p>Audience: Middle and High School Math Teachers</p> <p>NETS Standards: Teacher: 1, 2, 3 Student: 1, 3, 4, 5, 6</p>	1/12/11	3:30-5:30pm	Location:	Elmira Free Academy rm. 227	<p>Format: Workshop</p> <p>Description: In this session participants will explore using the TI Nspire teacher software in the classroom. Participants can expect to learn ways to interact with the Nspire teacher software while at your interactive whiteboard. This session will help to prepare a teacher in navigating Nspire teacher software as well as develop ways to model procedures for your students. This session should help the teacher comfortably learn ways of using the software while at the interactive whiteboard. For this session, laptops and required software will be provided.</p> <p style="text-align: center;">NOTE--each Users' Group session is independent, so you may register for more than 1 session.</p> <hr style="border: 1px solid black; margin: 10px 0;"/> <p>As a result, participants will:</p> <ul style="list-style-type: none"> • Explore the features of Nspire software that lend themselves to use of the interactive whiteboard • Share and discuss successes and challenges experienced with integrating technology into the math classroom • Build a collegial network of technology users
1/12/11	3:30-5:30pm				
Location:	Elmira Free Academy rm. 227				

Microsoft Word - Module I

Foundation

Date/Time:

10/12/10	3:30-6:30pm
Location:	Bush Campus, Building 11, Computer Lab

Training Hours: 3

Location: Bush Campus, Building 11 Computer Lab

Audience: Pre K - 12 Instructional Staff

NETS Standards:
Teacher: 1, 2, 3

Format: Workshop

Description: This is a required Core Curriculum session for users who will have access to the GST BOCES network. Learn the basics of this powerful word processing program and explore its applications for classroom or office use.

Topics include: the basic window and views toolbars, formatting, editing, save/retrieve, page setup, printing, tabs, drawing, and graphics.

As a result, participants will learn:

- To navigate the menu bar in Microsoft Word
- To create professional looking documents
- To save and edit documents
- To use various tools to enhance the appearance of documents

MS Word: Envelopes, Labels, Mail Merge, and Hyperlinks

Application

Date/Time:

11/17/10	3:30-6:30pm
Location:	Bush Campus, Building 11, Computer Lab

Training Hours: 3

Audience:
Grades 3-12 Instructional Staff

NETS Standards:
Teacher: 1, 3
Student: 1, 2, 3

Format: Workshop

Description:

Microsoft Word is a powerful word processing tool that can be used to create, revise, and save documents for printing and future retrieval. Participants in this course will enhance their basic skills to learn how to create envelopes and labels for one, or many (you can add graphics, too!); macros to automate and standardize tedious, repetitive and complex procedures; and hyperlink text or graphics that link to another file, a location within a file, or a page on the Internet. There will be time during the session for participants to create their own documents with assistance from the instructor.

As a result, participants will learn:

- To create labels and envelopes
- To create hyperlinks and bookmarks within a document
- To create a mail merge document between a data source and a Word document

Windows Movie Maker



Advanced Study

Date/Time:

11/1 AND 11/4/10	3:30- 6:30pm <u>Both Days</u>
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Location:	Horseheads High School rm. 260
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Training Hours: 6

Audience:

Grades Pre-K-12
Instructional Staff

NETS Standards:

Teacher: 1, 2, 3, 4, 5

Student: 1, 2, 3, 4, 5, 6

Format: Workshop

Description:

Windows Movie Maker makes movie making fun and easy. Teachers can create, edit, and share movies with just a few simple actions. This class will provide an overview of video editing in the classroom, using Microsoft's free software, and video camera basics. Please sign up for only one series of dates.

****Participants are expected to attend all 6 hours to receive credit****

As a result, participants will learn:

- How to create their own digital video projects
- Simple video editing techniques
- How to craft digital video projects for any curriculum area

Internet Safety - Elementary

 **Application**

12/15/10	3:30-6:30pm
Location:	Bush Campus, Building 11, Computer Lab

Training Hours: 3

Audience: PreK-4
Instructional Staff

NETS Standards:

Teacher: 1, 2, 3, 4

Student: 1, 2, 3, 4, 5

Format: Workshop

Description: The world is “wired”. Our students have moved to the “wired” environment with little hesitation. They have become the experts, in many cases teaching their parents and teachers how the internet operates. Our children are explorers using their computers as a magic carpet to find new friends, enhance their knowledge, and yes, get into trouble. We need to teach our children the technology as well as stressing online safety and ethics. (ISTE-Ethics, Etiquette, and Safety) During this class, we will be focusing on teaching students how to safely travel the internet superhighway as well of the ethics of using the internet.

As a result, participants will learn:

- Activities to use with students that teach Internet Safety
- How to evaluate websites for classroom use
- Information on popular sites such as My Space and Facebook and the “danger” signs
- How to monitor online activity

Differentiated Instruction: How Technology Can Help

  **Application**

11/4/10	3:30-6:30pm
Location:	Prattsburgh School Computer Lab
1/13/11	3:30-6:30pm
Location:	Bush Campus, Building 11, Computer Lab

Training Hours: 3

Audience:
Grades 3-12 Instructional Staff

NETS Standards:
Teacher: 1, 2, 3, 4, 5
Student: 1, 2, 3, 4, 5

Format: Workshop

Description:

The aim of differentiated instruction is to maximize each student's growth by meeting each student's needs where he or she is, and helping the student to progress. In practice, it involves offering several different learning experiences in response to students' varied needs. In this course, we will go over the definition of differentiated instruction and then tie in ways technology can help. It will focus on software and resources that are available to the teacher in many area districts.

As a result, participants will learn:

- Key software programs and resources available in your district
- Differentiation techniques
- Ways to use software to differentiate instruction
- How to create differentiated classroom projects

Mandarin Users' Group

Topic: eBooks and Other Online Resources

  **Application**

Date/Time:

10/13/10	3:30-5:30pm
Location:	Bush Campus, Building 11, Computer Lab

Training Hours: 2

Audience:
Library Staff

NETS Standards for Teachers: 2, 3, 5

NETS Standards for Students: 3

Format: Workshop

Description:

Training will be geared specifically for Library Media Specialists who have and use Mandarin M3 1.7. Sharing resources has long been a common practice among libraries. Learn how to maximize your own collection as well as those of other libraries in the region, state, country, and world in order to support the extended reference needs of your school's curriculum. Tips on finding, requesting, and tracking items will be shared.


NOTE--each Users' Group session is independent, so you may register for more than 1 session.

As a result, participants will learn:

- Beginning and advanced techniques in using the Mandarin M3 automation system
- About available resources
- Tips and tricks from other library staff members in the region on all aspects of library work


Mandarin Users' Group

Topic: The 852 Field: Your Best Resource for Imparting Local Information

 Application	Format: Workshop				
Date/Time: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 15%;">11/10/10</td> <td>3:30-5:30pm</td> </tr> <tr> <td>Location:</td> <td>Bush Campus, Building 11, Computer Lab</td> </tr> </table>	11/10/10	3:30-5:30pm	Location:	Bush Campus, Building 11, Computer Lab	Description: Training will be geared specifically for Library Media Specialists who have and use Mandarin M3 1.7. Sharing resources has long been a common practice among libraries. Learn how to maximize your own collection as well as those of other libraries in the region, state, country, and world in order to support the extended reference needs of your school's curriculum. Tips on finding, requesting, and tracking items will be shared.
11/10/10	3:30-5:30pm				
Location:	Bush Campus, Building 11, Computer Lab				
Training Hours: 2	NOTE--each Users' Group session is independent, so you may register for more than 1 session.				
Audience: Library Staff	<hr style="border: 1px solid black;"/> As a result, participants will learn: <ul style="list-style-type: none"> Beginning and advanced techniques in using the Mandarin M3 automation system About available resources Tips and tricks from other library staff members in the region on all aspects of library work 				
NETS Standards for Teachers: 2, 3, 5					
NETS Standards for Students: 3					


Mandarin Users' Group

Topic: Equipment: Which Database Should You Use?

 Application	Format: Workshop				
Date/Time: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 15%;">12/8/10</td> <td>3:30-5:30pm</td> </tr> <tr> <td>Location:</td> <td>Bush Campus, Building 11, Computer Lab</td> </tr> </table>	12/8/10	3:30-5:30pm	Location:	Bush Campus, Building 11, Computer Lab	Description: Training will be geared specifically for Library Media Specialists who have and use Mandarin M3 1.7. Sharing resources has long been a common practice among libraries. Learn how to maximize your own collection as well as those of other libraries in the region, state, country, and world in order to support the extended reference needs of your school's curriculum. Tips on finding, requesting, and tracking items will be shared.
12/8/10	3:30-5:30pm				
Location:	Bush Campus, Building 11, Computer Lab				
Training Hours: 2	NOTE--each Users' Group session is independent, so you may register for more than 1 session.				
Audience: Library Staff	<hr style="border: 1px solid black;"/> As a result, participants will learn: <ul style="list-style-type: none"> Beginning and advanced techniques in using the Mandarin M3 automation system About available resources Tips and tricks from other library staff members in the region on all aspects of library work 				
NETS Standards for Teachers: 2, 3, 5					
NETS Standards for Students: 3					

Mandarin Users' Group

Topic: Updates in the SCOOLS Catalog

 Application	Format: Workshop				
Date/Time: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 15%; padding: 2px;">1/12/11</td> <td style="padding: 2px;">3:30-5:30pm</td> </tr> <tr> <td style="padding: 2px;">Location:</td> <td style="padding: 2px;">Bush Campus, Building 11, Computer Lab</td> </tr> </table>	1/12/11	3:30-5:30pm	Location:	Bush Campus, Building 11, Computer Lab	Description: Training will be geared specifically for Library Media Specialists who have and use Mandarin M3 1.7. Sharing resources has long been a common practice among libraries. Learn how to maximize your own collection as well as those of other libraries in the region, state, country, and world in order to support the extended reference needs of your school's curriculum. Tips on finding, requesting, and tracking items will be shared.
1/12/11	3:30-5:30pm				
Location:	Bush Campus, Building 11, Computer Lab				
Training Hours: 2	NOTE--each Users' Group session is independent, so you may register for more than 1 session.				
Audience: Library Staff	<hr style="border: 1px solid black;"/> As a result, participants will learn: <ul style="list-style-type: none"> Beginning and advanced techniques in using the Mandarin M3 automation system About available resources Tips and tricks from other library staff members in the region on all aspects of library work 				
NETS Standards for Teachers: 2, 3, 5					
NETS Standards for Students: 3					

Map to the GST BOCES' Bush Campus Instructional Support Center:



The GST BOCES Instructional Support Center is located on Corning Rd. (Route 14).

ISTE-National Educational Technology Standards for Students:

1. Creativity and Innovation

Students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology. Students:

- a. apply existing knowledge to generate new ideas, products, or processes.
- b. create original works as a means of personal or group expression.
- c. use models and simulations to explore complex systems and issues.
- d. identify trends and forecast possibilities.

2. Communication and Collaboration

Students use digital media and environments to communicate and work collaboratively, including at a distance, to support individual learning and contribute to the learning of others. Students:

- a. interact, collaborate, and publish with peers, experts or others employing a variety of digital environments and media.
- b. communicate information and ideas effectively to multiple audiences using a variety of media and formats.
- c. develop cultural understanding and global awareness by engaging with learners of other cultures.
- d. contribute to project teams to produce original works or solve problems.

3. Research and Information Fluency

Students apply digital tools to gather, evaluate, and use information. Students:

- a. plan strategies to guide inquiry.
- b. locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media.
- c. evaluate and select information sources and digital tools based on the appropriateness to specific tasks.
- d. process data and report results.

4. Critical Thinking, Problem-Solving & Decision-Making

Students use critical thinking skills to plan and conduct research, manage projects, solve problems and make informed decisions using appropriate digital tools and resources. Students:

- a. identify and define authentic problems and significant questions for investigation.
- b. plan and manage activities to develop a solution or complete a project.
- c. collect and analyze data to identify solutions and/or make informed decisions.
- d. use multiple processes and diverse perspectives to explore alternative solutions.

5. Digital Citizenship

Students understand human, cultural, and societal issues related to technology and practice legal and ethical behavior. Students:

- a. advocate and practice safe, legal, and responsible use of information and technology.
- b. exhibit a positive attitude toward using technology that supports collaboration, learning and productivity.
- c. demonstrate personal responsibility for lifelong learning.
- d. exhibit leadership for digital citizenship.

6. Technology Operations and Concepts

Students demonstrate a sound understanding of technology concepts, systems and operations.

Students:

- a. understand and use technology systems.
- b. select and use applications effectively and productively.
- c. troubleshoot systems and applications.
- d. transfer current knowledge to learning of new technologies.

ISTE-National Educational Technology Standards for Teachers

1. Facilitate and Inspire Student Learning and Creativity

Teachers use their knowledge of subject matter, teaching and learning, and technology to facilitate experiences that advance student learning, creativity, and innovation in both face-to-face and virtual environments. Teachers:

- a. promote, support, and model creative and innovative thinking and inventiveness.
- b. engage students in exploring real-world issues and solving authentic problems using digital tools and resources.
- c. promote student reflection using collaborative tools to reveal and clarify students' conceptual understanding and thinking, planning, and creative processes.
- d. model collaborative knowledge construction by engaging in learning with students, colleagues, and others in face-to-face and virtual environments.

2. Design and Develop Digital-Age Learning Experiences and Assessments

Teachers design, develop, and evaluate authentic learning experiences and assessment incorporating contemporary tools and resources to maximize content learning in context and to develop the knowledge, skills, and attitudes identified in the NETS•S. Teachers:

- a. design or adapt relevant learning experiences that incorporate digital tools and resources to promote student learning and creativity.
- b. develop technology-enriched learning environments that enable all students to pursue their individual curiosities and become active participants in setting their own educational goals, managing their own learning, and assessing their own progress.
- c. customize and personalize learning activities to address students' diverse learning styles, working strategies, and abilities using digital tools and resources.
- d. provide students with multiple and varied formative and summative assessments aligned with content and technology standards and use resulting data to inform learning and teaching.

3. Model Digital-Age Work and Learning

Teachers exhibit knowledge, skills, and work processes representative of an innovative professional in a global and digital society. Teachers:

- a. demonstrate fluency in technology systems and the transfer of current knowledge to new technologies and situations.
- b. collaborate with students, peers, parents, and community members using digital tools and resources to support student success and innovation.
- c. communicate relevant information and ideas effectively to students, parents, and peers using a variety of digital-age media and formats.
- d. model and facilitate effective use of current and emerging digital tools to locate, analyze, evaluate, and use information resources to support research and learning.

4. Promote and Model Digital Citizenship and Responsibility

Teachers understand local and global societal issues and responsibilities in an evolving digital culture and exhibit legal and ethical behavior in their professional practices. Teachers:

- a. advocate, model, and teach safe, legal, and ethical use of digital information and technology, including respect for copyright, intellectual property, and the appropriate documentation of sources.
- b. address the diverse needs of all learners by using learner-centered strategies providing equitable access to appropriate digital tools and resources.
- c. promote and model digital etiquette and responsible social interactions related to the use of technology and information.
- d. develop and model cultural understanding and global awareness by engaging with colleagues and students of other cultures using digital-age communication and collaboration tools.

5. Engage in Professional Growth and Leadership

Teachers continuously improve their professional practice, model lifelong learning, and exhibit leadership in their school and professional community by promoting and demonstrating the effective use of digital tools and resources. Teachers:

- a. participate in local and global learning communities to explore creative applications of technology to improve student learning.
- b. exhibit leadership by demonstrating a vision of technology infusion, participating in shared decision making and community building, and developing the leadership and technology skills of others.
- c. evaluate and reflect on current research and professional practice on a regular basis to make effective use of existing and emerging digital tools and resources in support of student learning.
- d. contribute to the effectiveness, vitality, and self-renewal of the teaching profession and of their school and community.