Internet-based Resources and Tools That Can Be Used to Support Instruction

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Webinar
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PaTTAN’s Mission

The Pennsylvania Training and Technical Assistance Network is an initiative of the Pennsylvania Department of Education working in partnership with families and local education agencies to support programs and services to improve student learning and achievement.
PDE’s Commitment to Least Restrictive Environment (LRE)

Our goal for each child is to ensure Individualized Education Program (IEP) teams begin with the general education setting with the use of Supplementary Aids and Services before considering a more restrictive environment.

Learner Outcomes

Participants will:

• Review responsibilities related to internet use

• Identify appropriate use of the internet for instructional purposes

• Explore web-based formats and tools to support instruction
Internet Use Policies

• Intended purposes
• Privilege vs. a right
• Employer rights
• Unacceptable uses
• Etiquette
• Consequences

Internet Use Policies

• The Children’s Internet Protection Act (CIPA)

• A federal law enacted by Congress to address concerns about access to offensive content over the Internet on school and library computers
Basic Equipment Needed for Access

- Computer with Internet access
- Speakers
- Printer

“Nice-to-have” Items for Access

- Webcam
- Software for enhanced programs
- High speed connection
- Wireless access
Who Benefits from Using the Internet?

- Everyone! However:
  - All instructional decisions must be made by the educational team or teacher.
  - Internet interaction must be targeted to meet the specific educational need of each student.
  - Internet content and usage must always be in line with the PA Academic Standards.
  - It is never to be used to simply keep students occupied or only as a reward.

Students and Computers

- “Across the world there is a passionate love affair between children and computers . . .
  And more than wanting [computer technology], they seem to know that in a deep way it already belongs to them.
  They know they can master it more easily and more naturally than their parents.
  They know they are the computer generation.”

Seymour Papert, The Connected Family, 1996
Are you a **digital native** or **immigrant**?

- A **digital native** is a person who was born during the existence of digital technology, and, as a result, has grown up with and known digital technology such as computers, the Internet, mobile phones, and MP3s for all of their lives.

Are you a **digital native** or **immigrant**?

- A **digital immigrant** is an individual who was born before the existence of digital technology and adopted it to some extent later.
Why use the internet in classrooms?

• Take a moment and jot down some reasons you think the internet could be used in the classroom.

Why use the internet in classrooms?

• Engages the learner
• Instant access to enormous amounts of information
• Today's students speak "tech". They are digital natives
• Prepares them for a "tech" based world
Why use the internet in classrooms?

- A window to the world
- It is fun to use
- Educator learns continuously
- Fast and efficient
- Opportunities for feedback – formative assessment

Internet Safety - You are still in charge!

- Always follow your employer’s internet use policy.
- The internet is only as safe as the adults in the child’s environment make it.
- It is always the adults responsibility to monitor student’s use of the internet.
### Internet Safety - You are still in charge!

- **Bullying:**
  - Face to face
  - Telephone
  - Texting
  - Email

### General Internet Use

- **Clarifying some terms**
  - Web Browser
  - Search Engine
  - Web 2.0 Tools

- **We Use the Internet in Many Ways**
  - Information sharing
  - Communications
  - Transfer information or data
  - Education and skill building
Clarifying Some Terms – **Web Browser**

- A web-browser is a way to view information provided through the internet.
- We see the information in the form of web pages.
- Internet Explorer, Firefox, and Safari are examples of web browsers.

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Clarifying Some Terms – **Search Engines**

- We access information from these web pages through search engines.
- Search engines that you may use or recognize are Google, Yahoo, or Bing.
Clarifying Some Terms - **Web 2.0 Tools**

21st Century Tools for Collaborative Learning
- Promote Social Learning
- Enable Learners to Create, Collaborate, Connect, Communicate, and share ideas with anyone in our global society
- Free & Accessible

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How We Use The Internet - **Information**

- Publishing information to a large audience in the form of **web logs** or **blogs** through networking sites like Facebook, MySpace, and Twitter.

![Facebook](image1.png)

![MySpace](image2.png)

![Twitter](image3.png)
How We Use The Internet – Information

• Management of Content or Wiki sites – contributors or “members” can put information on the site while other “visitors” can only view the site.
  – Livebinders - http://livebinders.com
    Livebinder for this training:
    http://tinyurl.com/paraprolb
    Access Code: augustwebinar

How We Use The Internet - Communication

• Electronic mail – email
• Instant messaging - AOL
• Voice calls and conferencing
• Video calls and conferencing
  – Skype is an example of a communication service via the internet
• Voice and video calls to anyone else on Skype
• Conference calls with three or more people
• Instant messaging, file transfer and screen sharing

How We Use The Internet - **Data Transfer**

• Webcams
  – Face to Face Communications - Skype
  – Videoconferencing
  – YouTube
  – TeacherTube - http://www.teachertube.com
• Streaming Media
  – Webcasts - **today’s training**
General Internet Use

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    - Education and skill building

Where do we start?
How we use the internet

**Education & Skill Building**

**Where to Start?**

Center for Applied Special Technology (CAST)

- CAST’s Mission:

  - To expand learning opportunities for all individuals, especially those with disabilities, through the research and development of innovative, technology-based educational resources and strategies.

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**CAST tells us…**

- One way to expand learning opportunities for all students is through Universal Design for Learning (UDL).

- If we start with something that ALL students can use, it is much easier to adapt it when necessary.
What does UDL provide for our instruction?

• Gives diverse learners options for acquiring information and knowledge
• Provides learners options for demonstrating what they know
• Taps into learners' interests, offer appropriate challenges, and increase motivation

A Starting Point

**UDL Tech Toolkit on Wikispaces**
http://udltechttoolkit.wikispaces.com/

• Graphic Organizers
• Literacy tools
• Study skills tools
• Audiobook
• Math Tools

• Writing Tools
• Speech to Text
• Text to Speech
• Research Tools
• Useful Links
• Additional Free Tools
Study Skills

- **Study skills** and **study strategies** are what students do to help themselves hold on to what they learning.

- They include time management, removing distractions, notetaking, creating study guides, flash cards, highlighting important text, just to name a few.

Study Skills

- **Study Stack**

  Study Stack has flash cards for a huge variety of topics. Students can practice vocabulary, facts, and concepts in many content areas. There are also several games and puzzles that students can play to practice knowledge and skills.
Graphic Organizers

- A graphic organizer is a visual and graphic display that depicts the relationships between facts, terms, and or ideas within a learning task.

- Graphic organizers come in many different forms, each one best suited to organizing a particular type of information.

Graphic Organizers

- **Freeology Graphic Organizers**
- **Graphic Organizer Templates**
- **Webspiration**
Literacy

• **Literacy** has traditionally been described as the ability to read and write.
• **To be a fluent reader, students must have the following building blocks in place:**
  – Phonemic Awareness
  – Phonics
  – Fluency
  – Vocabulary
  – Comprehension

Literacy

• **Word Magnets**

• **Story Line**

• **Poetry Foundation**
Writing

• If a student is a fluent reader, writing is usually done without much effort. If a student is not a fluent reader, writing will be a tremendously difficult task for the student.

Writing

• Story Maker

• Writing is fun

• Voice thread
Math

• **Mathematics** has evolved from just counting, calculation and measurement.

• It also includes algebra, geometry, and calculus, which are concerned with the study of number, quantity, shape, and space.

Math

• **Conceptuamath**

• **Math Playground**

• **Math Dictionary for Kids**
Collaborative Tools

• A collaboration tool is something that helps people work together on a common task or project. The term is often used to mean collaborative software, but collaboration tools were being used before computers existed.

Collaborative Tools

• Wallwisher

• Cool Tools for Schools

• Go 2 Web 20
Text to Speech/Speech to Text

• A **text-to-speech** system converts normal language text into speech.

• It is very beneficial for struggling readers; when text is digital, it becomes accessible.

• It supports the writing process, especially when editing and revising work.

• **Speech to text** converts spoken words to text.

Text to Speech/Speech to Text

• **Natural**

• **Click,Speak**

• **DSpeech** - text-to-speech AND speech-to-text tool.
Pennsylvania’s SAS Web Portal

http://pdesas.org/

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Certificate of Attendance

This certificate is awarded to:

For participation in Training for Special Education Paraprofessionals:
Streaming Media:
Using the Internet to Support Instruction

The content presented in this webinar covered aspects of the following competencies outlined in the PA Credential of Competency Checklist:

4S1 Use strategies, equipment, materials, and technologies, as directed, to accomplish instructional objectives
4S3 Use strategies, as directed, to facilitate effective integration into various settings
4S4 Use strategies to promote the learner’s independence as directed

To validate this certificate, participant must answer the four questions and fill in the code below:

Questions: 1.____ 2.____ 3.____ 4.____  
Code ____________________

3.0 Hours