Using Web 2.0 Tools to Support Inquiry Based Learning

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School Library System, Southern Westchester BOCES
Author, *Choosing web 2.0 Tools for Teaching and Learning in a Digital World*

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Welcome!

- **Pam Berger**
  - Director of Information, School Library System, NY
  - *Information Searcher* newsletter, Publisher and Editor
  - Adjunct faculty, School of Information Studies, Syracuse University
  - *Teaching for Inquiry: Engaging the Learner Within* (Neal-Schuman, 2011)
  - Published articles in *Multimedia Schools, School Library Journal, American Libraries* and many more.
What you will learn

- Innovative Web 2.0 tools that support student learning
- An understanding of Web 2.0 and how to effectively integrate the tools into the curriculum
- Exciting ways to engage students in creating and sharing information
Innovative, Interactive Tools for Teaching and Learning

- Digital Natives
- Searching the Web
- Managing & Organizing
- Social Bookmarking
- Content Collaboration
- Media Sharing
- Social Networks

Learn About Web 2.0

Don’t miss this link to 10 Great TIPS

Take a risk! Collaborate with a colleague using a Web 2.0 tool!

Join in and add links to your strategies, webpages, and ideas on integrating Web 2.0 tools

http://web20learning.wikispaces.com
Use Wordle to Create Tag Clouds

http://wordle.net/
Tagxedo
Web 2.0 Quiz

- Are you more comfortable composing documents online than longhand?
- Do you go to meetings with your iPad or PDA?
- Have you switched your bookmarks from folders on your computer to a networked service such as deli.cio.us or diigo?
- Do you read blogs or follow tweets to keep up with professional news?
- Do you have a Facebook page?
Share the results of the Quiz
Web 2.0 Characteristics

- Interactivity
- User participation
- Collective intelligence
- Self Service
- Convergence of media
Other Views of Web 2.0

- Real trend is self-service (John Dvorak, 2006)
- People to people, interaction (Tim Berners-Lee, 2006)
- Web 2.0 is driven by publishing content, not pages or sites (Robin Peck, 2006)
- Collaboration and Openness (Bryan Alexander, 2006)
Other Views of Web 2.0

- Real trend is **self-service** (John Dvorak, 2006)
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# Web 2.0 and Learning

## Student Learning Behavior
- Collaborative
- Active learning
- Independent learners

## Web 2.0 Characteristics
- User participation
- Collective intelligence
- Interactive
- Self service
Stripling Inquiry Model

What is Inquiry?

Connect, Wonder, Investigate, Construct, Express, Reflect
Stripling Inquiry Process

- **Connect**
  - Connect to self, previous knowledge
  - Gain background knowledge to set context for new learning
  - Observe, experience

- **Wonder**
  - Develop questions
  - Make predictions

- **Investigate**
  - Find and evaluate information to answer questions, test hypotheses
  - Think about the information to illuminate new questions and hypotheses

*Tip #1 Focus on Student Learning*

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Barbara Stripling, *Inquiry-Based Learning in Curriculum Connections Through the Library*. Libraries Unlimited
Stripling Inquiry Process

- **Construct**
  - Construct new understandings connected to previous knowledge
  - Draw conclusions about questions and hypotheses
- **Express**
  - Express new ideas to share learning with others
  - Apply understandings to a new context, new situations
- **Reflect**
  - Reflect on own process of learning and on new understandings gained from inquiry
  - Ask new questions
Stripling Inquiry Model

**TIP #2: Categorize Web 2.0 tools. It helps to understand how they support learning.**

Categories of Web 2.0 Tools:
- Managing and Organizing
- Content Collaboration
- Media Sharing
- Social Networking
- Curriculum Sharing
- Digital Storytelling
Stripling Inquiry Model

Connect

Wonder

Investigate

Construct

Express

Reflect

Media Sharing

Managing and Organizing

Content Collaboration

Social Networking
Tip #3: Target the thinking process

Investigate
Construct

analyze
find patterns
draw conclusions
outline relate
rewrite
Express

share  imagine  
formulate  design  
remix  speculate  
create
Web 2.0 Social Tools

Managing and Organizing
- Live Binders, Symbaloo

Content Collaboration
- Edistorm

Media Sharing
- Voicethread, Prezi

Social Networking
- QR Codes

Curriculum Sharing
- Khan Academy, Digital Vaults,
- Digital Storytelling
  - StoryBird, ICDL

Tip #1 Focus on Student Learning
TIP #2: Categorize Web 2.0 tools
Tip #3: Target the thinking process
Explore

- Web tools by category/type
- AASL Standards
- Curriculum examples

Wiki site with all links: http://web20learning.wikispaces.com/
Managing and Organizing

- Live Binders
- Symbaloo
  - Web 2.0 Tools
- Dipity
Standards for the 21st-Century Learner

- **2.1.2** Organize knowledge so that it is useful.
- **2.1.4** Use technology and other information tools to analyze and organize information.
- **3.1.4** Use technology and other information tools to organize and display knowledge and understanding in ways that others can view, use and assess.
Live Binders

- **National History Day** contest requires students to research a topic of their choice related to a yearly theme. Live Binders would be helpful for students to organize information into different categories while researching for their project. The entire unit is inquiry-based, as students have to develop their own questions, have initial research sessions to help solidify the facets of their topic, then delve into topic-specific research. Live Binders is helpful because it can organize media files as well as PDFs and text formats.
Content Collaboration

- Edistorm
Standards for the 21st-Century Learner

- 1.3.4 Contribute to the exchange of ideas within a learning community.
- 3.1.2 Participate and collaborate as members of a social and intellectual network of learners.
Edistorm makes it fun and easy for groups of people to collaborate.

Create a Storm

Creating a storm takes less than a minute. Simply enter a name for the storm, pick a template and invite users.
Add Ideas
Adding ideas is as easy as writing on a sticky note. Type your idea in the sticky note and post it on the storm.
In addition to sticky notes, you can easily upload PDFs or videos from popular video sites.

Edit and Delete Ideas
You can edit the text or change the color of the sticky note, and move it wherever you want. Administrators can moderate a storm by deleting any ideas that don’t belong.

Viewing your Storm
Use the Browser Zoom (CMD+ or CMD-) to zoom in or out of your storm. Use the viewer to navigate the storm.

Vote on Ideas
To vote for an idea, drag one of your "dots" from the side bar to the sticky note. Each user gets a limited amount of votes to pick their favorite ideas. You can instantly sort ideas by the number of votes.

Discuss/Comment on Ideas
Each idea has its own discussion thread allowing you to dig deeper on issues around a specific idea.

Reporting
Create an instant report of what was discussed and export it to Excel or create a PDF of the storm.
Chat: What grade/curriculum lesson can you introduce Edistorm to support collaboration and creative thinking?
Media Sharing

- Voicethread
- Prezi
Standards for the 21st-Century Learner

- **3.1.4** Use technology and other information tools to organize and display knowledge and understanding in ways that others can view, use and assess.
- **3.3.4** Create products that apply to authentic, real-world context
Social Networking

- QR Codes

http://web20learning.wikispaces.com/
Create Barcodes

- **Barcode Type:**
  - Website link
  - Encoded message
  - Contact details
  - Send SMS

- **Web address:**

- **Title (optional):**

- **Barcode Format:**
  - QR Code
  - Data Matrix

- **Size:**
  - Medium

- **Embed:**

Right click on the smartcode to save it to your computer.

You can encode either a link to a website, a message to a friend, or your contact details. Then turn the information into a mobile barcode, one that can be printed on stationery, advertising or packaging, a t-shirt, or even built into a website or a Facebook page - and read by an i-nigma enabled mobile device.
Standards for the 21st-Century Learner

- **3.1.2** Participate and collaborate as members of a social and intellectual network of learners.
- **4.1.7** Use social networks and information tools to gather and share information.
- **4.3.1** Participate in the social exchange of ideas, both electronically and in person.
Curriculum Sharing

- Khan Academy
- Digital Vaults
2 Minute Share

Share an idea you have to use Digital Vaults or Khan Academy to support learning. Raise your hand and I’ll open your microphone.
Digital Storytelling

- StoryBird
- International Children’s Digital Library
Storybirds are short, art-inspired stories you make to share, read, and print.

Read them like books, play them like games, and send them like greeting cards. They’re curiously fun.

Start a Storybird Now or take the tour

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**early buzz:** Encourage literary exploration & artsy fun – *Shaping Youth*

**Family and friends**
Maintain bonds, share traditions, unite generations. Make stories in minutes and enjoy them for life.

**Teachers**
Sign up for a teacher account to manage students without emails, create assignments, and build beautiful libraries.

**Artists**
Sell your art and connect with fans. Storybird is a creative and commercial platform built just for you.
In this thrilling tale, Spot learns that friends can come from the unlikeliest places.
<table>
<thead>
<tr>
<th>Image</th>
<th>Artist/Title</th>
</tr>
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<tbody>
<tr>
<td>Cup of Cappuccino</td>
<td>Victoria Usova</td>
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<td>Polar Bear</td>
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<td>Granny</td>
<td>shishir naik</td>
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<td>Baby Scientist Drops a Potion</td>
<td>Jevs Illustration</td>
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<td>Alien Boss</td>
<td>Aaron Blecha</td>
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<td>Monkey Samba</td>
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<td>Rain</td>
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<td>Peaceful</td>
<td>Mitski Kobayasi</td>
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<td>The bee juice</td>
<td>Sue's Licorice</td>
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<tr>
<td>Fishing More</td>
<td>Jarae Aesar</td>
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</tbody>
</table>
Cup of Cappuchino

Comments (3) | Hearts (5)

- **gabriellamgonzales** says:
  did you draw that on in online paper?
  Posted 11 months ago (Permalink)

More about this art:
- Uploaded: Nov. 9, 2010
- Views: 1269
- Copyright © All rights reserved
- Flag this art
INTERNATIONAL CHILDREN’S DIGITAL LIBRARY
A Library for the World’s Children

THE LIBRARY
First-time Visitors
- Read Books
- Using the Library
- Open a Library Account
- Featured Books
Library Members
- Sign in
- Community Forum
Book News
- Recently added Books
- Award-winning Books
- Featured Books
- White Ravens List

THE FOUNDATION
- Mission
- Letter from the Director
- Board of Advisors
- Foundation Team
- Sponsors
- Book Contributors

BOOK OF THE DAY
Add this gadget

FEATURED BOOKS
Dima
Written by Saja Ameer; Arabic
Read book »

Magic Dogs of the Volcanoes
Written by Manlio Arguello; English, Spanish
Read book »

The Rocket Book
Written by Peter Newell; English, French, Hebrew, Korean, Russian
Read book »

EXPLORING THE ICDL WITH SARAH
Read more »

LIBRARY NEWS AND NOTES
COLLEGE PARK, MD: A recent article in School Library Journal looks at the educational value of E-Books. ICDL is featured, and some interesting uses and studies of E-Books in schools are described.

COLLEGE PARK, MD: The New York Times included StoryKit in their list of "top picks." StoryKit is our family-friendly iPhone app which children can use to create stories on their phone (or iPod Touch) with text, pictures and other story elements. Download it for free and give it a try.

FREDERICKSBURG, VA: Read how one reference librarian in Virginia went online to the International Children's Digital Library to help a local man find

SUPPORT THE LIBRARY
MAKE A DONATION
VISIT OUR GIFT SHOP

OUR MISSION
The ICDL Foundation promotes tolerance and respect for diverse cultures by providing access to the best of children's literature from around the world.

We invite you to explore our growing library and learn how you can contribute to our efforts.
The people who live in the villages on the slopes of the volcanoes have always loved the cadejos. They say the cadejos are really the great-great-grandchildren of the volcanoes. They say the cadejos have always protected them from danger and misfortune.

La gente que vive en las faldas de los volcanes quieren mucho a los cadejos. Dicen que los cadejos son los tataranietos de los volcanes y que siempre han protegido a la gente del peligro y de la desgracia.
Continue Exploring

- AASL Top Websites for Teaching and Learning
- Book: *Choosing Web 2.0 Tools for Learning and Teaching in a Digital World*
The Best Websites for Teaching and Learning

honors websites, tools and resources of exceptional value to inquiry-based teaching and learning as embodied in the American Association of School Librarians' Standards for the 21st-Century Learner.
Best Websites for Teaching and Learning

• Support the Standards for the 21st Century Learner
• Support collaboration with classroom teachers
The award winning websites foster the qualities of innovation, creativity, active participation, and collaboration.

They are free, web-based sites that are user friendly and encourage a community of learners to explore and discover.
Best Websites for Teaching and Learning Award Website

http://www.ala.org/aasl/guidelinesandstandards/bestlist/bestwebsitestop25

Book mark with names of award winning websites

PDF available on award web
Choosing Web 2.0 Tools for Learning and Teaching in a Digital World

Pam Berger and Sally Trexler
Libraries Unlimited, 2011

Print and e-Book (Kindle)
Innovative, Interactive Tools for Teaching and Learning

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