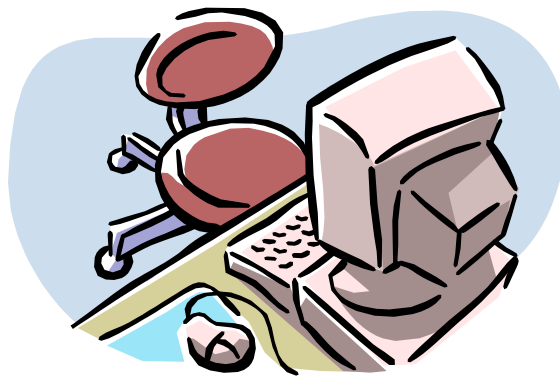


Is Your Student Project Better Than a Blackline Master?

MACUL Conference 2006



Little Introduction



Ladd M. Skelly

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Classroom Connect

- Director of Instruc. Services
- Educational Background (20 yrs.)**
- Teacher
- Tech Coordinator
- District Administrator

What's On The Agenda

- Where do you begin?
- What is project-based learning?
- Choices, Choices
- Plug n' Play Projects
- Essential Questions
- Creating Online Projects
- WebQuests
- Support Resources and More



Conference Resources

- <http://twi.classroom.com/workshops/lskelly>

About Workshops

Custom Designed, Custom Delivered.

Workshop Resources from Classroom Connect



- ◆ **Contact Information**
- ◆ **Conference Resources**
- ◆ **Workshop Topics**
- ◆ **Learning Portal**
- ◆ **PDF Support Files**



Ladd M. Skelly
National Learning Specialist

Ladd's Top Ten Lists
Techtoon Cartoons

Did you know?



McDonald's

10 billion hamburgers

In just 10 years!

iTunes

10 billion downloaded songs

Less than 3 years!

BEST PLAYER FOR YOUR
DIGITAL ENTERTAINMENT



PLAY
ANYTHING...
ANYTIME!!!

[Click to Download
iTunes >>](#)



Is There a Generational Divide?

- Are you an immigrant or are you a native?



**The Internet is a great way to get
on the Net.**

--Bob Dole

Where Do You Begin?

- ISTE
 - <http://cnets.iste.org/currstands/>
 - NETS for Students
 - NETS for Teachers
 - NETS for Administrators
- Your local standards

What constitutes a good student project?

- Addresses students needs, interests and learning styles
- Promotes higher level thinking skills
 - What's that Bloom thing again?
- Cuts across the curriculum while meeting a healthy range of standards
 - For both students and teacher

TechToon

As part of my social studies project, I am about to show you my Web page on the exotic dancers of the South Pacific.



What Is Project-Based Learning?

- In project-based learning, students work in teams to explore real-world problems and create presentations to share what they have learned.
 - *Student benefits:*
 - Deeper knowledge of subject matter
 - Increased self-direction and motivation
 - Improved research and problem-solving skills

What Is Project-Based Learning?

- “Project-based learning emphasizes long-term, multidisciplinary assignments and activities that are student centered and focus on real-world problems and issues.”
 - Microsoft Education

Are you promoting project-based learning?

- Do you:
 - Address real-life issues?
 - Stress problem-solving skills?
 - Serve as a facilitator?
 - Let students self-assess progress?



General Steps

- Explore other (online) projects
- Identify your curricular focus
- Select a framework from which to create a project
- Examine and select learning technologies

Where Do You Begin?

- Do some research first
 - George Lucas Foundation
 - <http://www.glef.org>
 - Best practices
 - Assessment
 - Knowledge Loom
 - <http://knowledgeloom.org/index.jsp>

Choices, Choices, Choices

- **Use a “plug & play” online project**
 - Advantages
 - Less prep time
 - Disadvantages
 - May not dovetail to your curriculum needs
- **Create your own online project**
 - Advantages
 - Customized learning
 - Disadvantages
 - Labor intensive
 - Content
 - Tools



Staying On Task



Generated Projects

- Sites include all content, resources and tools
- Examples
 - Communication
 - Data Collecting & Exchanging
 - Adventure Learning
 - Virtual Fieldtrips
 - Problem-solving
 - Electronic Publishing
 - Digital Photography



Samples: Plug & Play Projects

- Explore
 - Project FeederWatch
 - <http://birds.cornell.edu/PFW/>
 - Journey North
 - <http://www.learner.org/jnorth/>

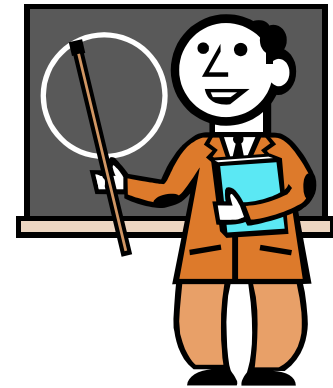


Project Development

- Sites include the tools, resources and examples of online projects
- Projects include:
 - Hotlists
 - Research investigations
 - Hunts
 - WebQuests



Dr. Bloom I Presume



- **Knowledge:**
 - Building the informational base
- **Comprehension:**
 - Processing information so that the meaning is clear
- **Application:**
 - Apply information to a new situation
- **Analysis:**
 - Ability to take apart the complex to show how it works
- **Synthesis:**
 - Creating or producing something new with current knowledge
- **Evaluation:**
 - Making value judgments based on reason

Bloom's Taxonomy: Question Cues

- **Knowledge:**
 - list, define, tell, describe, identify, show, label, collect, examine, tabulate, quote, name, who, when, where,
- **Comprehension:**
 - summarize, describe, interpret, contrast, predict, associate, distinguish, estimate, differentiate, discuss, extend
- **Application:**
 - apply, demonstrate, calculate, complete, illustrate, show, solve, examine, modify, relate, change, classify, experiment, discover

Bloom's Taxonomy: Question Cues

- **Analysis:**
 - analyze, separate, order, explain, connect, classify, arrange, divide, compare, select, explain, infer
- **Synthesis:**
 - combine, integrate, modify, rearrange, substitute, plan, create, design, invent, what it?, compose, formulate, prepare, generalize, rewrite
- **Evaluation:**
 - assess, decide, rank, grade, test, measure, recommend, convince, select, judge, explain, discriminate, support, conclude, compare, summarize

Online Activities/Projects

■ Hotlists

- A **hotlist** is a list of Internet resources that are related to a certain theme, topic, subject, and/or project.

■ Advantages

- Provides appropriate resources
- Requires no searching
- Allows more “time on task”

■ *China On The Net*

- <http://www.kn.pacbell.com/wired/China/hotlist.html>

Online Activities/Projects

■ Hunts

- A treasure hunt is an activity in which one searches for clues and answers

■ Advantages

- Promote searching skills
- Develop basic Internet skills
- Gathering relative and meaningful information

■ *Cindy O'Hora's Internet Hunts*

- <http://homepage.mac.com/cohora/ext/internethunts.html>

Online Activities/Projects

■ WebQuests

- A WebQuest is an inquiry-based project that includes Internet resources

■ Advantages

- Delivers inquiry-based learning
- Promote effective use of the Internet
- Promotes higher level thinking skills
- Provides real world experiences
- Promotes cooperative learning

■ *I Want My Mummy*

- <http://home.cfl.rr.com/mrshebert/Mummy/index.htm>

WebQuest: To Be or Not to Be

- There are a wide range of topics, approaches and directed skills.
 - Beware of projects aimed at lower level skills
 - Labor intensive with little return
 - Shoot for projects that carry the biggest bang for your buck
 - Higher level thinking skills
 - Unique tech skill sets

The Hardest Task

- Do you have a topic, some curricular goals and some **essential questions** in mind for your **WebQuest**?
 - A good essential question is the principle component of designing inquiry-based learning.

Essential Questions

- Questions that probe for **deeper meaning** and set the stage for **further questioning** foster the development of critical thinking skills
- Essential questions are questions that require you to **make a decision** or **plan a course of action**.
- The best essential questions center around major issues, problems, concerns, interests, or themes that are **meaningful** to the students

Examples of Essential Questions

- What invention of the 20th Century has had the greatest impact? Justify your response (decision-making).
- What plan could be developed to reduce the impact of zebra mussels on the Great Lakes ecosystem? Your plan can include three strategies. (developing an action plan)

What's integral to WebQuest research?

- The scaffolding of higher-level thinking skills
 - Move through subtasks that break down a complicated bigger picture
 - concrete thought processes into abstract ones
 - Begins with uncovering facts and then **synthesize** and **analyze** them in order to construct meaning.

Eight Steps to a Successful Online Project

- **Step 1:** Think about your curriculum standards and goals.
- **Step 2:** Go online to see how other teachers are structuring their projects.
- **Step 3:** Once you have become familiar with a variety of online projects, revisit your curriculum and develop the type, topic, and content for your project.
 - Make sure that the topic appeals to your students.
- **Step 4:** Design your project with specific goals, tasks, and outcomes. Don't forget the essential question. Create a starter project that is doable.

Eight Steps to a Successful Online Project

- **Step 5:** Develop an evaluation tool that best supports the project.
 - Ex. Rubric- WebQuest
- **Step 6:** Set specific beginning and ending dates for your project.
- **Step 7:** Periodically, review the process of the project. Answer any questions and address any concerns.
- **Step 8:** At the project's conclusion, share the results of the project with all participants. Publish results if applicable.

WebQuest Resources

- Learning About WebQuests
 - A WebQuest About WebQuests
 - <http://webquest.sdsu.edu/webquestwebquest-hs.html>
- Best WebQuests.com
 - <http://bestwebquests.com/>
- Integrating WebQuests
 - Weaving the Web into K-12 Curriculum
 - <http://www.pitt.edu/~edindex/WebQuests/frames.htm>

Evaluating WebQuests

- Rubric Form from Spartanburg
- Bernie Dodge's Form
 - <http://webquest.sdsu.edu/webquestrubric.html>
- Assessing WebQuests by Tom March
 - <http://www.ozline.com/webquests/rubric.html>
- Eduscapes's Evaluation and Use
 - <http://eduscapes.com/sessions/travel/use.htm#2>

Development Process & Tools

- Planning Phase
- Searching Phase
 - Searching Tools
- Research Phase
 - Lesson Plans
 - Project Warehouses
 - Assessments
 - Pre and post
 - Assess progress
 - Tools
 - Authoring
 - Productivity
- Implementation Phase
 - Productivity Tools
 - Student Tools
 - General Resources
 - Training
 - Project Tools
 - Communication
 - Sharing Data
- Wrap-up Phase



Planning Phase

- Tech Integration: Unit Planning
 - http://www.kent.k12.wa.us/curriculum/tech/proj_plan.html
- Creating Online Projects
 - *Teacher's Guide for Building Integrated Technology Projects*
 - www.essdack.org/building/
- WebQuests
 - <http://webquest.sdsu.edu/materials.htm>

TechToon

Mr. Wilkins, Do you have any extra batteries? My handheld device just died.



Searching Phase

- Searching Tools
 - Directory: www.dmoz.org or www.webbrain.com
 - Search Engine: www.google.com
 - Meta-search engine: www.dogpile.com
 - All the Web: <http://alltheweb.com>
- Natural Language
 - Brainboost: <http://www.brainboost.com>
- Clustering Information
 - Vivisimo: <http://www.vivisimo.com/>

Research Phase: Lesson Plans

- Mrs. Smith's Web Page
 - <http://home.earthlink.net/~jesmith/>
- Teacher's Lab
 - <http://www.learner.org/teacherslab/>
- TEAMS Distance Learning
 - <http://teams.lacoe.edu/>



Research Phase: Project Warehouses

- Bernie Dodge's WebQuest Site
 - <http://edweb.sdsu.edu/webquest/webquest.html>
- Blue Web'n
 - <http://www.kn.pacbell.com/wired/bluwebn/index.html>
- CyberBee
 - <http://www.cyberbee.com/>
- TrackStar
 - <http://scrtec.org/track/makingtracks.html>

Implementation Phase: Development Tools

- Filamentality
 - <http://www.kn.pacbell.com/wired/fil/>
- Trackstar
 - <http://trackstar.4teachers.org/trackstar/index.jsp>
- Ribit (Internet Based Inquiry Template)
 - <http://ribit.tielab.org/>
- Bernie Dodge's QuestGarden 1.0
 - New WebQuest generator
 - <http://webquest.org/questgarden/index.php>

Implementation Phase: Performance Assessment

- 4Teachers.org
 - RubiStar
 - <http://rubistar.4teachers.org/>
 - Online, electronic rubrics tool
 - Project-Based Checklists
 - www.4teachers.org/projectbased/
 - Online, electronic checklist tool
- Rubrics
 - http://www.teach-nology.com/web_tools/rubrics/

Implementation Phase: General Assessment

- Online Quizzes
 - Online quizzes that revolve around a curriculum topic
 - **QuizStar (free)**
 - <http://quizstar.4teachers.org>
 - **Quia!**
 - www.quia.com
- **Advantages**
 - Create electronic quizzes
 - Variety of templates
 - Compiles student scores
 - Create electronic surveys

Implementation Phase:

Student Tools

- Evaluating Internet resources
 - Kathy Schrock's Guide for Educators
 - <http://school.discovery.com/schrockguide/eval.html>
- Paradigm Online Writing Assistant
 - <http://www.powa.org/discover/index.html>
- Reading Corner
 - <http://www.carr.lib.md.us/read/>
- Virtual Presentation Assistant
 - <http://www.ukans.edu/cwis/units/coms2/vpa/vpa.htm>

Implementation Phase: Communication Tools

- Gaggle.net
 - <http://www.gaggle.net>
 - Teacher monitored email for students
- ePals
 - www.epals.com
 - Teacher monitored email for students

Implementation Phase: Authoring Tools

- Homestead Web Editor
 - <http://www.homestead.com>
 - Web site that provides web authoring opportunities
- Microsoft Word
 - <http://www.microsoft.com/>
 - A word processing application
 - Can convert documents to HTML
- Writely (web word processor)
 - <http://www.writely.com/>
 - Components
 - Edit, collaborate, publish, blog, revisions

Implementation Phase: Productivity Tools

- Keebook Creator (Keeboo)
 - <http://www.keeboo.com>
 - [demo](#)
 - software that creates virtual books that are Internet accessible
- Microsoft PowerPoint
 - <http://www.microsoft.com/>
 - an electronic presentation application
 - Can convert to HTML

Good Old Days

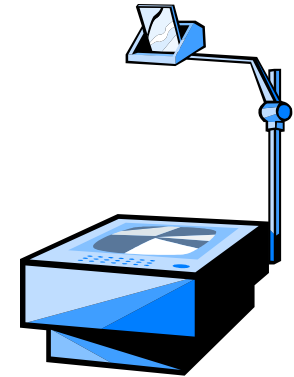
TechToon

You kids are so spoiled! When I was your age, we didn't have online dictionaries, encyclopedias and atlases. No...We had to walk four miles to the library to use reference books!



Implementation Phase: Online Training

- Actden.com
 - www.actden.com
 - Microsoft Applications
 - Online tutorials for students and teachers
- Freeskills.com
 - www.freeskills.com



Implementation Phase: Sharing Data

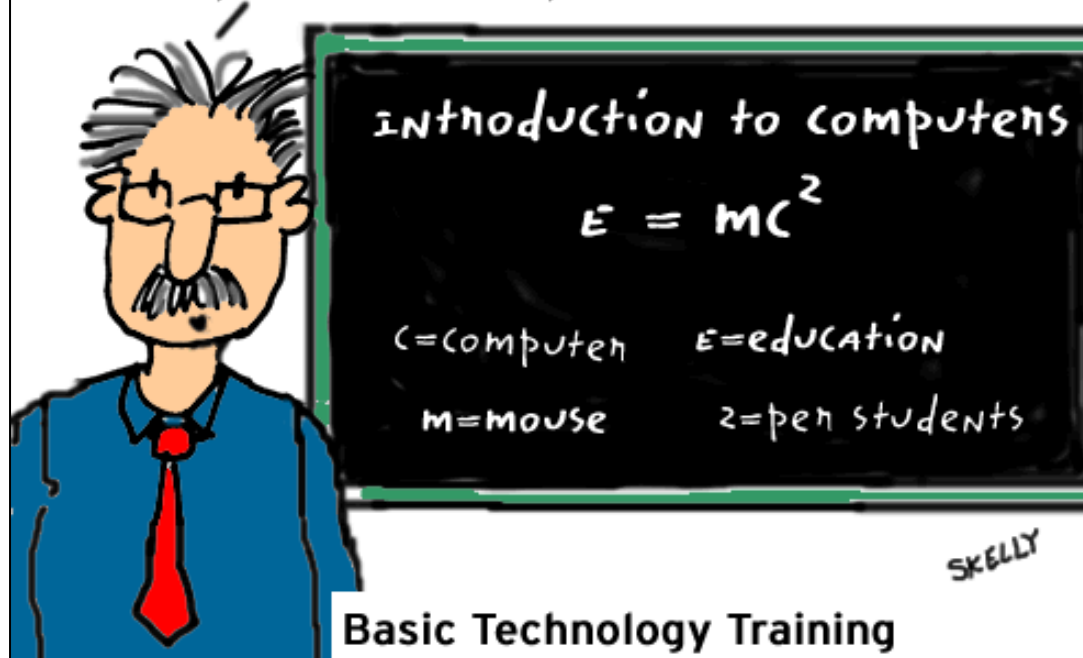
- XDrive
 - <http://www.Xdrive.com>
 - Online storage space)
 - \$9.95 per month for 5GB
- Backflip
 - <http://www.backflip.com>
 - Online Web site that organizes online information and resources
 - Free

Training?

TechToon

Einstein Technology Training Center

So you ask, "How does a computer relate to education?"
Let me explain with this simple formula.





Top 10 Signs Technology Has Taken Control Of Your Life

- 1) If you went to the MACUL party at B.O.B. last night and answered one cell phone call...
- 2) If you've named your two children, Alpha and Beta...
3. If the highlight of your week is Sunday's advertisements of Circuit City and Best Buy...
4. If your pet has a presence on MySpace...
5. If you took more than 512MB of pictures of the blue skies of Michigan...
6. If you'd rather sit in front of your computer than spend time with your friends...
7. If you IM your plumber...
8. If you play Texas Hold'em on the Web...
9. If you look for wireless hotspots at the mall to gain free access to the Internet...
10. If you've placed a picture of Bill Gates on your computer desktop...

Thank you for attending



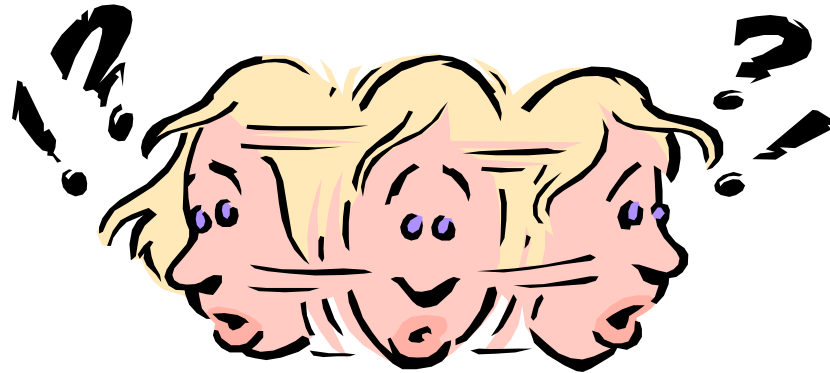
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Classroom Connect

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Website: <http://twi.classroom.com/workshops/lskelly>

Thank you for attending!



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Conferences Handouts:

<http://twi.classroom.com/workshops/lskelly>