

“Who dares to teach must never cease to learn”
 John Cotton Dana

Integrating Technology in the classroom
 What, When, Why, and How
 By Luisa Alonso-Rice

Project Smart SUNY Oswego
 teachingdigitallearners.com



“paradigm shift”

- It's a change from one way of thinking to another.
- It's a revolution, a transformation, a sort of metamorphosis.
- It just does not happen, but rather it is driven by agents of change.

<http://www.takeiteasy.com/define.html>

“change”

March 14, 2010, Amazon.com listed under “change”

102,962 book titles
 32,872 MP3 downloads
 3,509 Kindle store items
 2,255 Industrial & scientific results

**Who in the world can
keep up with this?**

Mind set, John Naisbit, 2006

List of changes

What used to be	What it is now
• Typewriters	• Computers
• LP records	• CD's
• 8 track tape	• MP3 files
• Printed Books	• Digital books
• Poster board	• Power Point
• Encyclopedias	• Internet (Google,Wikipedia)
• Public phones	• Cell phones
• Blackboards	• Smart Boards
• Paper quizzes	• Senteos
• Notebooks	• Netbooks
• Notepad	• iPad

Who in the world can keep up with this?

Advantages:

-  Improve student achievement and skills for the 21st century
-  Increase teacher productivity and meaningful instruction
-  Enabling better parent teacher communication

Effects of technology on classroom and students:

-  Change in Student and Teacher roles
-  Increased Motivation and Self Esteem
-  Technical Skills

Effects of technology on classroom and students:

-  Accomplishment of More Complex Tasks
-  More Collaboration with Peers
-  Increased Use of Outside Resources

Have you been paying attention?

Top 10 Tools for Learning, 2009
 By Jane Hart, Head of the Centre for Learning & Performance Technologies

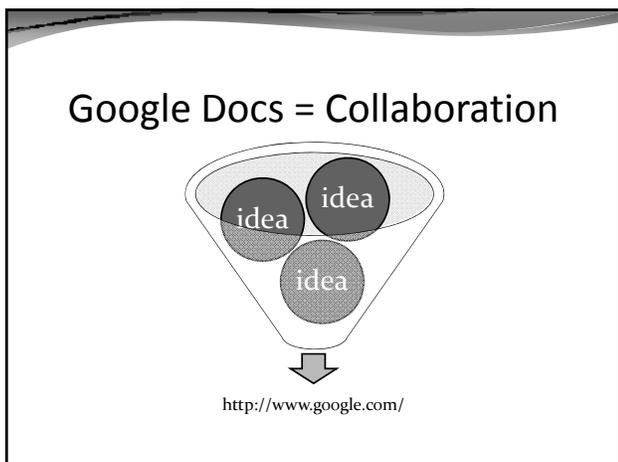
Twitter	Micro-blogging tool, collaboration, research
Delicious	Social bookmarking tool
YouTube	Video sharing site, practice target language
Google Reader	RSS / Feed reader, research, information
Google Docs	Create & share work online, collaboration, group projects
Wordpress	Blogging tool, practice, reinforcement, instruction
Slideshare	Hosting presentations, group projects
Google search	Web search tool, translation, research
Audacity	Podcasting
Firefox	Research, web browser

http://leap.london.ac.uk/learn/index.html

What?

Facebook, Twitter	Information, communication
E-mail	Homework, communicate w/ parents
IM	Practice target language
Skype	Online collaboration, video conferencing, connect classroom to the world
Podcast	Practice, reinforcement, instruction
Online Testing	Exam View
Web-cams	Podcasting, group projects, Youtube
Blogs	Collaboration, research
Wikis	Collaboration, group projects

What?	
Google Earth	3D images, Explore, Search and Discover
Web quest	requires higher level thinking, not simply summarizing synthesis, analysis, problem-solving, creativity and judgment.
Pen-Pals	learn culture, practice target language
Virtual Tours	countries, cities, museums, exhibits, US Government, travel
E-folios	electronic learning portfolio organizing and sharing collections of large database
Cell Phones	information, practice target language
Smart Boards	21st-century tools to create an inquiry-driven, thoughtful and empowering environment. Improves student learning, achievement, and behavior
Senteos	interactive response system enable to use students' responses to shape future instruction

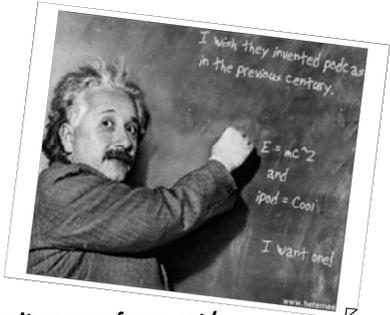




Podcasting in French & Health classes

Podcasting from
the Classroom

Mac Users use
Garage Band.
Windows Users
Windows Movie
Maker.
or
Use Power Point, add
music and narrate
your podcast.



<http://audacity.sourceforge.net/>
download the LAME encoder

Comic Life

YOU WILL CREATE A COMIC LIFE PROJECT AS A MODEL OF WHAT COULD BE REPLICATED BY STUDENTS

SOME EXAMPLES INCLUDE...

- ILLUSTRATE A PROCESS
- RECREATE AN EVENT
- CREATE A SEQUEL TO A STORY...
- YOUR OWN IDEA

CONSIDER...

- HOW WILL YOU RELATE YOUR PROJECT TO THE BIG IDEAS OF A PARTICULAR UNIT AND NOT JUST ONE STORY?
- WHAT IS THE OBJECTIVE OF YOUR PROJECT?
- HOW WILL IT BE ASSESSED?



- explore storyboarding of students' plays and movies
- document school outings
- acquire language skills
- easy-to-use tool for creating worksheets
- flash cards
- lesson plans

Comic Life in English class

Mr. Ryan's 9th grade
Honors English class
To Kill a Mockingbird
Comic Life©

Comics de la clase de Español

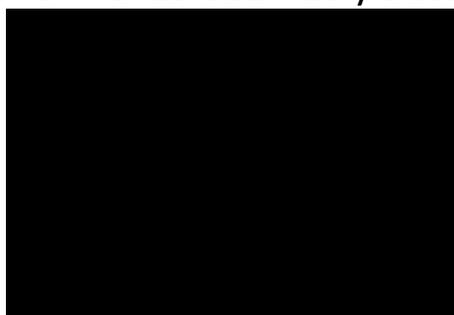
Fireworks

- Promote digital literacy
- teach essential career skills
- facilitate flexible online learning programs
- streamline administrative processes.

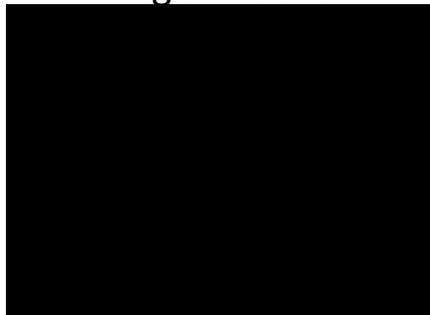
Fireworks in Math class



Snowflakes Geometry class



Frog Dissection



When?

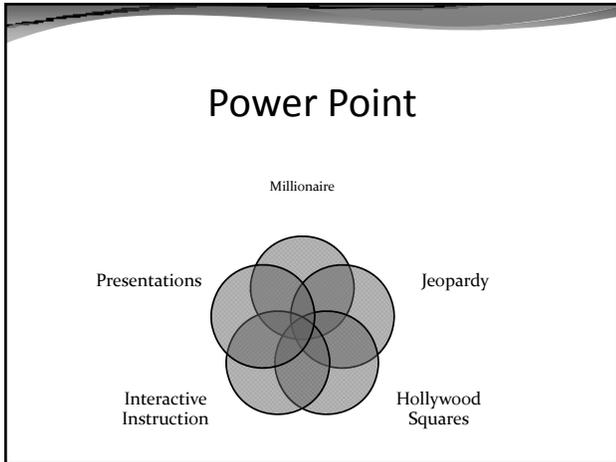
- Language
- Culture
- Poetry
- Reading
- Writing
- Listening
- Literature
- Public Speaking
- Storytelling
- History
- Geography
- Biology
- Physics
- Math

Why?

- To help students
- analyze
- synthesize
- absorb content
- provide practice
- concrete to abstract transitions
- connect words with images
- It's
- enjoyable
- effective
- challenging
- interesting

How?

- Quizzes/ Tests
- Student Polls
- Spelling Bees
- Math Experiments
- Science Experiments
- Book Reports
- Peer Tutoring
- Class Presentations



Smart Technology

Smart Board	• helps energize presentations and motivate learners
Airliner	• wireless slate offers freedom to deliver interactive lessons from anywhere in the classroom
Senteos	• Instantly and accurately gauge student understanding

Coming soon SMART Response VE

- Cell phones and other mobile devices are becoming fixtures in the lives of today's students.
- Students can participate in classroom assessment using their own Internet-enabled devices.
- Free as a beta version for current SMART Response users.
- Browser-based tool that lets students respond to questions and quizzes right from their devices.
- A variety of question types, including true or false, yes or no, multiple choice and text answers.
- **Sign up for the beta!**

Student Feedback

- *"All students should have access to the iTouch in the classroom because they would be more excited about learning."*
- *"I love to read, and unlimited access to classics was awesome."*
- *"When teachers reference something you can look it up [on the Internet]."*
- *"My favorite application was Vocab Daily because I would learn new words everyday."*

www.iear.org Monday, June 22, 2009 at 3:00PM

Stimulus money

- The American Recovery and Reinvestment Act (ARRA) will distribute nearly \$100 billion in federal funds for education to schools over the next few months. Educators face a historic opportunity to improve teacher effectiveness, prevent educator layoffs, and make other one-time investments to help their students and their school systems.
- But how do you get this money and what do you have to do with it?
- How do you wade through the continuing evolution of guidance available and make sound financial choices for your school?

"Acquiring & Managing Stimulus Funds: What Your School Needs to Know"
Wednesday, June 17, 2009 1:00-2:00 p.m. ET

Budget Bonanza in California

- "California is home to software giants, bioscience research pioneers and first-class university systems known around the world. But our students still learn from instructional materials in formats made possible by Gutenberg's printing press," Schwarzenegger wrote in a recent op-ed in the San Jose Mercury News.
- "We expect the first science and math books to be digital by this fall," Schwarzenegger said. "If we expand this to more textbooks, schools could save hundreds of millions of dollars a year, and that's hundreds of millions of dollars that could be used to hire more teachers and to reduce class sizes."
- In many schools, learning already is moving online. A bill pending in the California Legislature would approve electronic readers such as the Kindle as acceptable alternatives to traditional textbooks.

Teacher Magazine. June 11, 2009

Helpful web sites

- <http://eduscapes.com/sessions/smartboard/>
- <http://education.smarttech.com/ste/en-US/Ed+Resource/>
- <http://www.teachertube.com/index.php>
- <http://portableapps.com/apps>
- <http://youtubedownload.altervista.org/>
- <http://smarttech.com/>
- <http://vodpod.com/watch/248408-smartboard-demo>

Resources available

- www.oswegoboces.org
- <http://www.iear.org/>
- www.teachermagazine.org

RESOURCES

To create a Podcast

- ❖ Audio Editing Applications
- ❖ Audacity – <http://audacity.sourceforge.net/>
 - LAME MP3 Encoder – <http://lame.buanzo.com.ar/>

Free Audio Clips for Podcast

- ❖ Free Play Music – <http://www.freeplaymusic.com/>
- ❖ CcMixter – <http://ccmixter.org/>

Create your own comic strip

- ❖ Comix - <http://www.makebeliefscomix.com/Comix/>
- ❖ Comic Life - <http://plasq.com/comiclife-win> (\$25-\$30)

Bitmap and vector graphics editor

- ❖ Adobe Fireworks - <http://www.adobe.com/products/fireworks/> (\$299)

Sketch 3D scenes and Photoshop

- ❖ Java Sketch - http://www.dynamicgeometry.com/JavaSketchpad/About_JavaSketchpad.html
- ❖ Adobe Photoshop - <http://www.free-online-downloads.com/photoshop.php>

Create dynamic lessons for the Smart Board

- ❖ TechSmart - <http://www.facebook.com/larice?ref=profile#!/pages/Farmingdale-NY/TeqSmart/7852169420>

Create games

- ❖ Power Point - <http://www.murray.k12.ga.us/teacher/kara%20leonard/Mini%20T's/Games/Games.htm>

Spanish is Fun - <http://learningspanishisfun.com/Home.html>

- ❖ Numbers 0 – 100
<http://www.helloworld.com.es/english/LearnSpanish/LearnSpanishNumbers.htm>
- ❖ Greetings - <http://www.helloworld.com.es/english/LearnSpanish/spanishgreetings.htm>