

Technology Integration

Presented by Jim Dolan

Evaluation



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Presentation materials available at:

www.mtsd.k12.nj.us/integration

Science & Technology Integration

Things you can use now

Things you can use later

Things to consider for the future

Teacher Productivity

Student Productivity

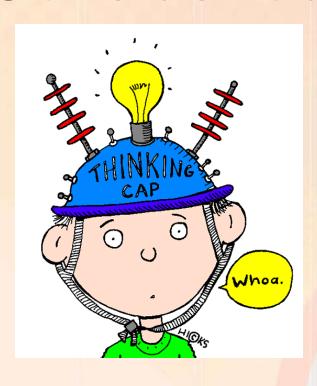
Many of the practices can be used across disciplines

Simple

Mystanting

Think before we jump into Technology

Consider Why? Consider our Students





Our students have changed radically

Students are no longer the people our educational system was designed to teach







They have spent their entire lives surrounded by and using

- Computers
- Videogames
- Digital music players
- Web cams
- Cell phones
- And all the other toys of the digital age



College grads have spent less than 5,000 hours reading

But over 10,000 hours playing video games (not to mention 20,000 hours watching TV).

Computer games, email, the Internet, cell phones and instant messaging are integral parts of their lives.





As a result, students think and process information much differently





Teachers Have Important Jobs



ELEPHANTS

Larger than the moon



Our Agenda

Teacher Tech Collaboration Web 2.0



Dropbox



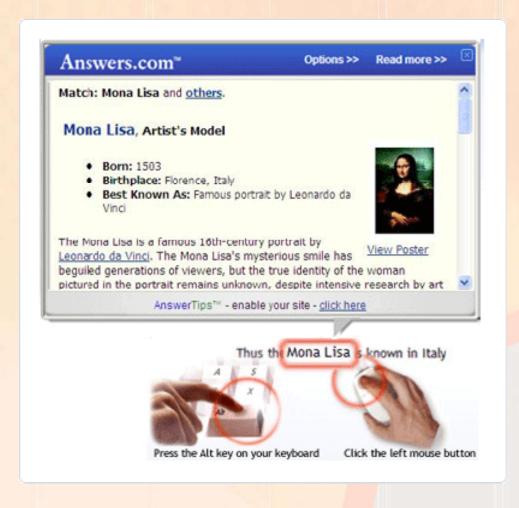
Explore Dropbox.com



www.mtsd.k12.nj.us/integration

Answers.com

http://www.answers.com/main/download_answers_win.jsp



Accuracy Time

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Answers.com[®]

Explore Answers.com



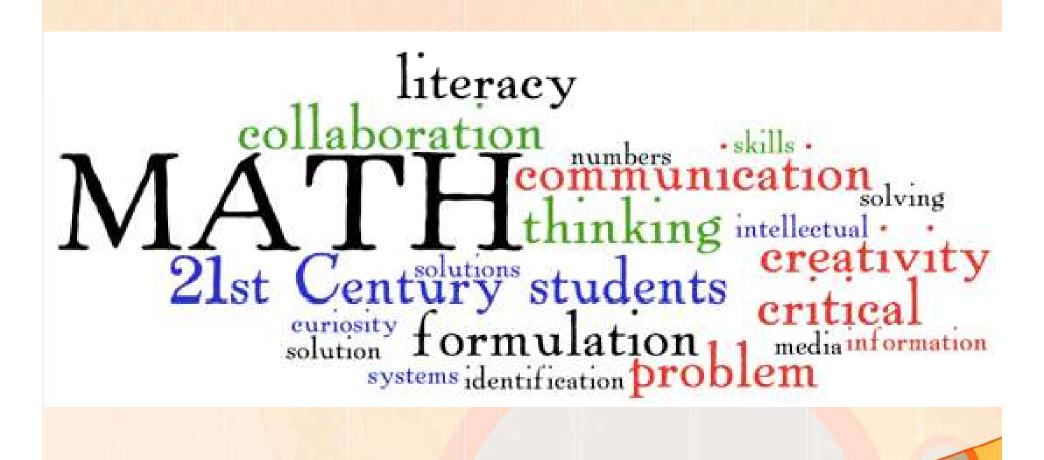
www.mtsd.k12.nj.us/integration

Wordle

Wordle (Word Clouds)

- A tool for generating "word clouds" from text that you provide
- The clouds give greater prominence to words that appear more frequently in the source text
- You can tweak your clouds with different fonts, layouts, and color schemes
- The images you create with Wordle are yours to use
- You can print them out, or save them to the Wordle gallery to share with your friends

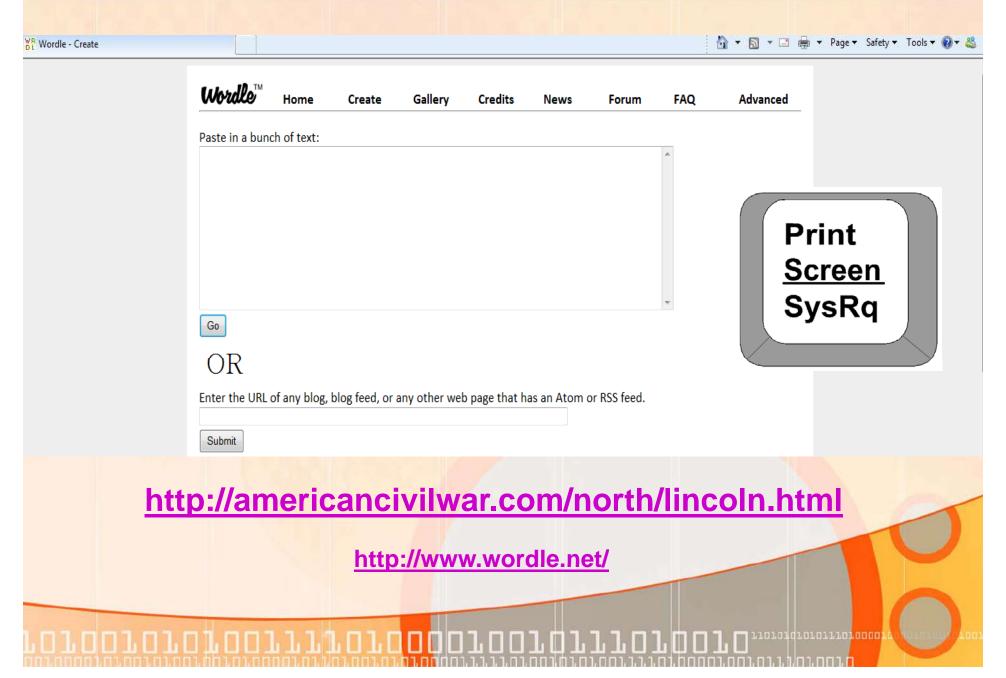
http://www.wordle.net/







Create Your Own Word Cloud



Picture Prompt



Edit and Present

Edit Language Font Layout Color

POPCAST GOOGLE CONCEPT ACCOUNTS POCS SOFTWARPING SOFTWARE EMAIL

Additional Word Cloud Web Sites

www.wordle.net/

www.tagxedo.com

www.tagcrowd.com

www.worditout.com

www.tocloud.com

www.abcya.com/word_cloud.htm

Explore Word Clouds



www.mtsd.k12.nj.us/integration





SAY CHEESE!



- •Kids love gadgets, so why not use them in the classroom?
- Used to gather evidence in scientific experiments
- Project include collecting insects/plants/rocks, documenting seasons, recording group progress, or describing stages of cycles
- Helps with scientific methods and improving familiarity with emerging technology available



Digital Cameras



EARTOC

- Display Pictures using PowerPoint
- Used in conjunction with an LCD projector
- Search for Images (Internet/Clipart)
- Copy, Paste, Save







Document - Compare

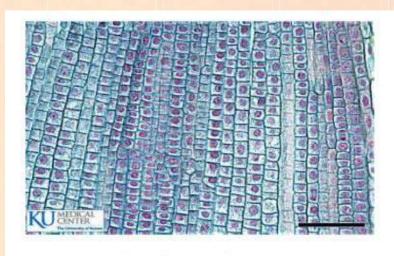


Document Cameras

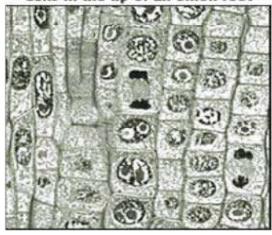


Display Images

• Print, Post, Share, Discuss, Document



Cells in the tip of an onion root





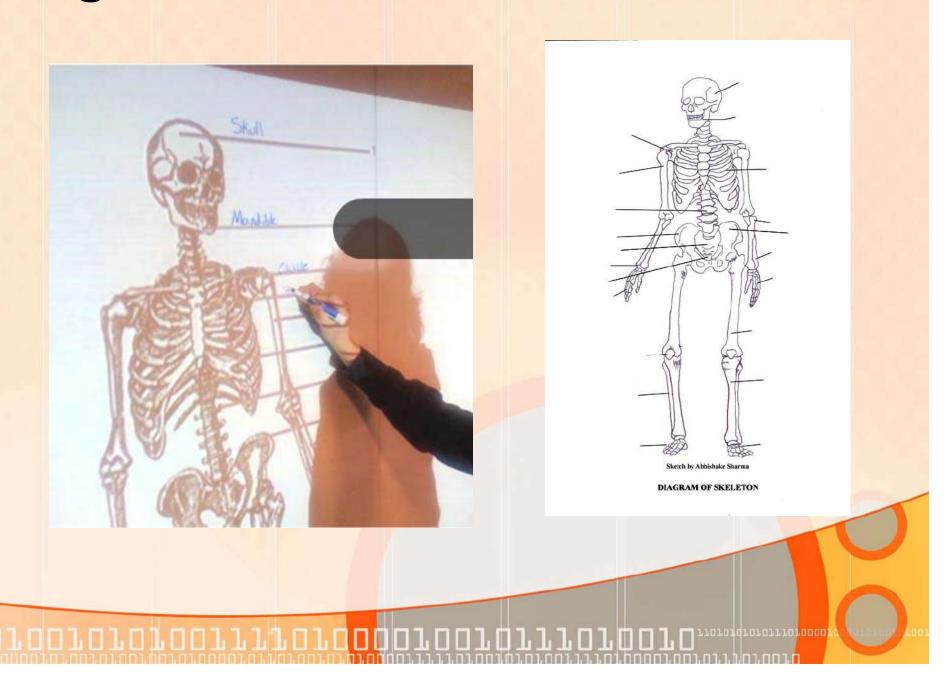
Show Models - Digital Camera Lesson



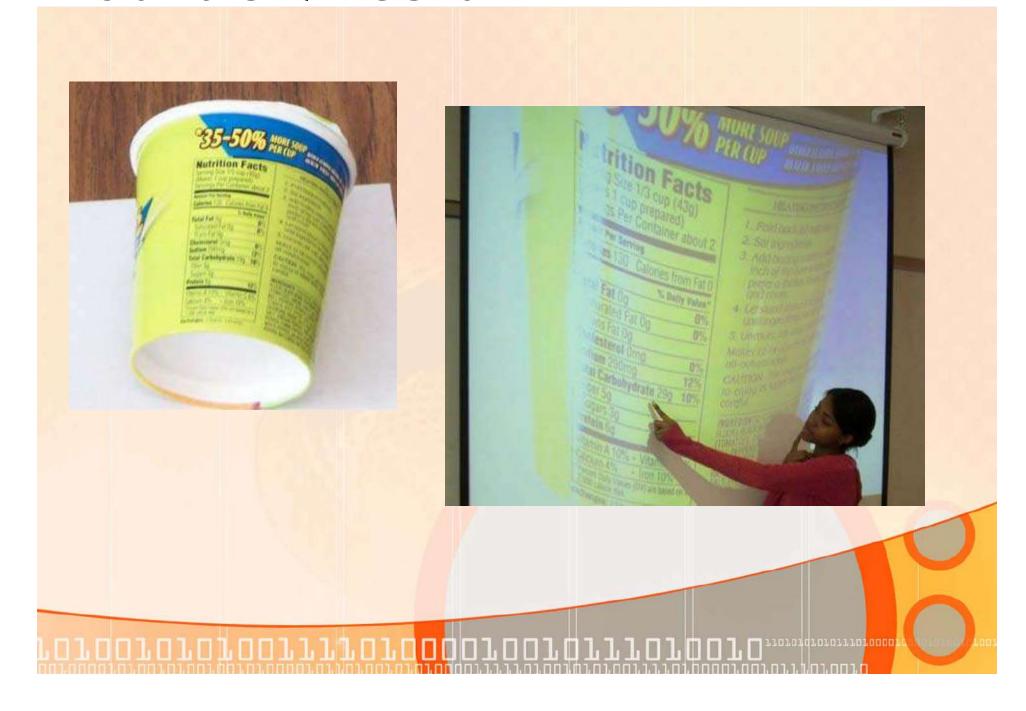
Fill in Maps/Diagrams



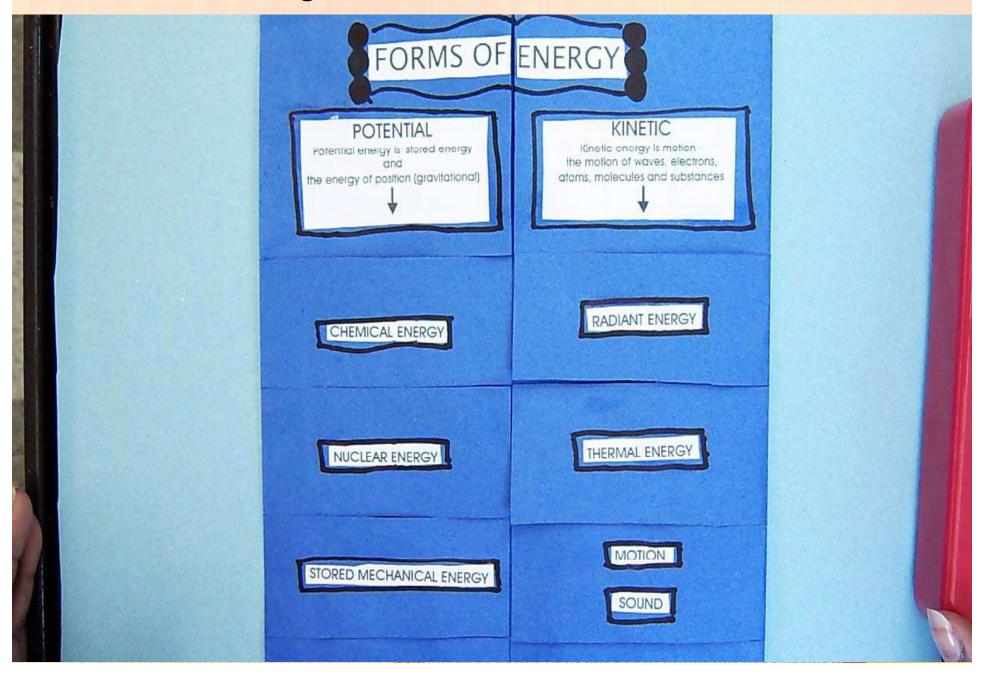
Diagram

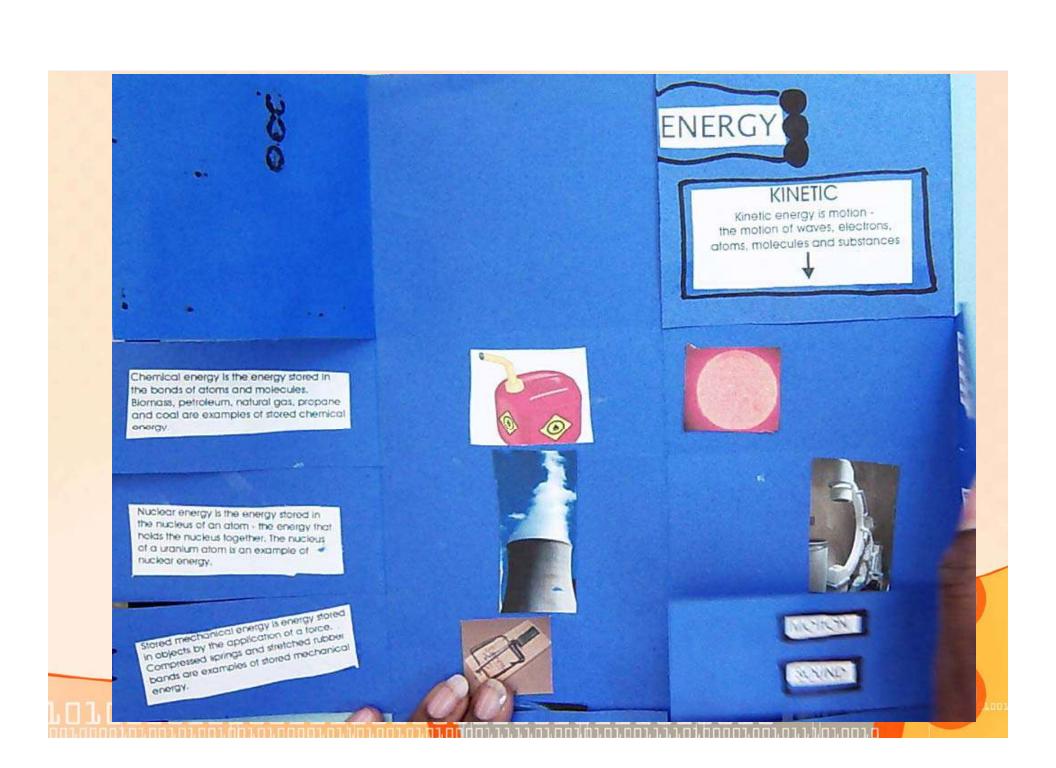


Nutrition/Health



Share Projects





Videos

Video Sites (Free)

•Sites where teachers can post videos designed for students to view in order to learn a concept or skill









Video Web Sites

http://www.youtube.com

http://www.teachertube.com

http://www.schooltube.com

http://www.vimeo.com/

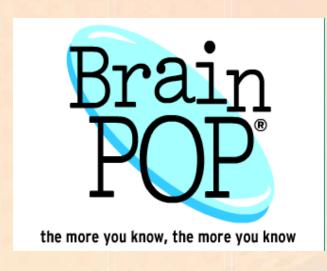
http://video.search.yahoo.com/

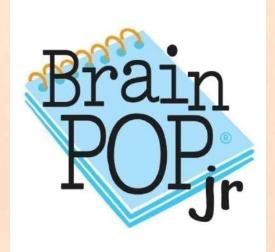
http://video.google.com/

http://www.stevespanglerscience.com/video



Video Sites (Fee)







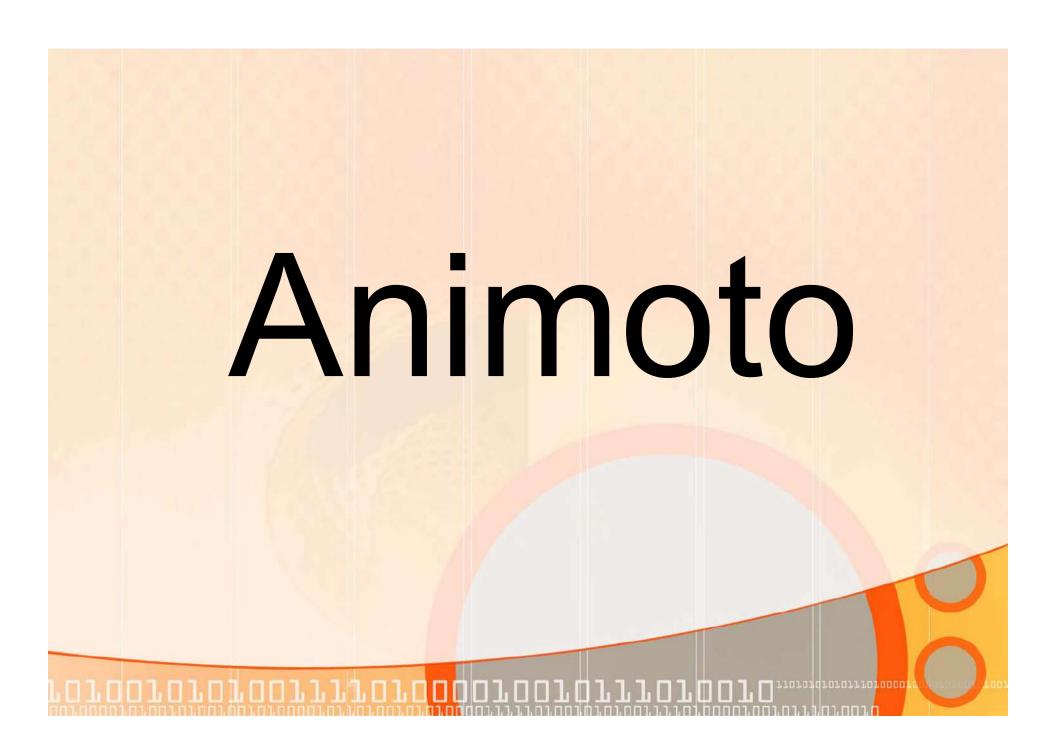
www.brainpop.com http://streaming.discoveryeducation.com/ Download Videos (Realplayer)



http://www.real.com/realplayer/

http://www.mtsd.k12.nj.us/Page/4479

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Animoto (Digital Story)

- Select photos, video clips, text, and music, and Animoto will produce a short video
- Can upload the video to YouTube, Facebook, and other sites
- Making 30-second videos is free!
- Teachers can apply for a free Animoto Plus account, giving them access to more features

www.animoto.com

Animoto (Example)



Explore Animoto

www.animoto.com



Shoot your own video (Tornado)

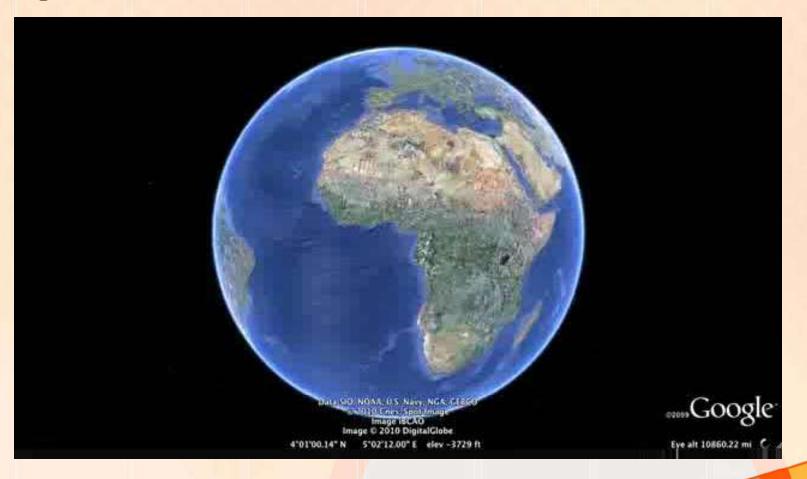
(Museum of Science and Industry)





Take a Virtual Field Trip

Google Earth



Shoot your own video

(Museum of Science and Industry)

Google Earth lets you fly anywhere on Earth to view satellite imagery, maps, terrain, 3D buildings and even explore galaxies in the Sky. You can explore rich geographical content, save your toured places and share with others.

http://earth.google.com/

Don't have time to install Google earth or can't-Use the web site version below.

http://www.google.com/earth/explore/products/earthview.html

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Virtual Fossil Dig

Fossil Dig

- Travel to our location via Google Earth
- Calculate distance
- Examine fossil samples using a microscope
- Link to the web site



http://poricypark.org/

http://en.wikipedia.org/wiki/Poricy_Park#Fossils





Tool star Doorsest Camera, Marks St, Marks ba, Roston (Journal Camera), Airtable Doorsest - Wasses Interest high ser-Elita Hall HE SK the Facility DK tell 110年 And a mention steer took a ** Fortier - Exercise Bossel Case S. Amifects Phrasis. Al/er/Media where to buy support media room shoutus STATE OF THE PARTY. portable mechanical arm Eparture allows derigsed possibly with the postable machinical are interaction decement coheren. trag Afailtech Jatolicon, prosetd rose republites and up to 3 maga plant turns in heat are indicated. Deposit the managed webs and other providing to a (Miller driver the Vantoria 3754) 当の 内部をつい @ home

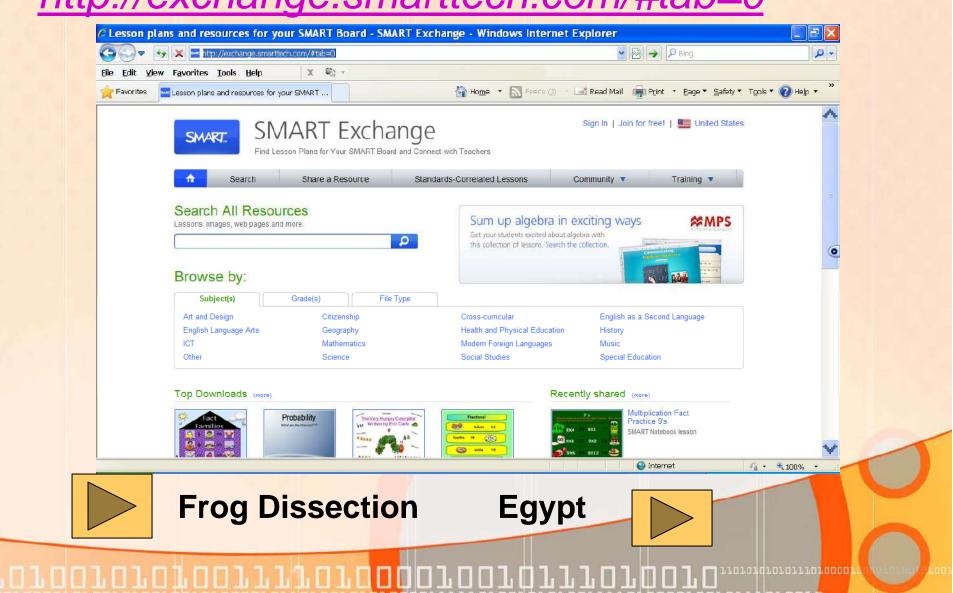


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http://paleobiology.si.edu/dinosaurs/interactives/dig/dinodig.h

Smartboard Activities

http://exchange.smarttech.com/#tab=0



Elementary Web Sites

Fact Monster

http://www.factmonster.com/

Yahoo Kids

http://kids.yahoo.com/

Ask Kids

http://www.askkids.com/

Dib Dab Doo

http://www.dibdabdoo.com/

Tek Mom

http://www.tekmom.com/search/index.html

Eduscapes

http://eduscapes.com/sessions/experience/first.html

Early Elementary Web Sites

Science Learning Games

http://www.learninggamesforkids.com/weather_games.html

Enchanted Learning

http://www.enchantedlearning.com/categories/science/

Eduscapes

http://eduscapes.com/sessions/experience/first.html



Flash Cards

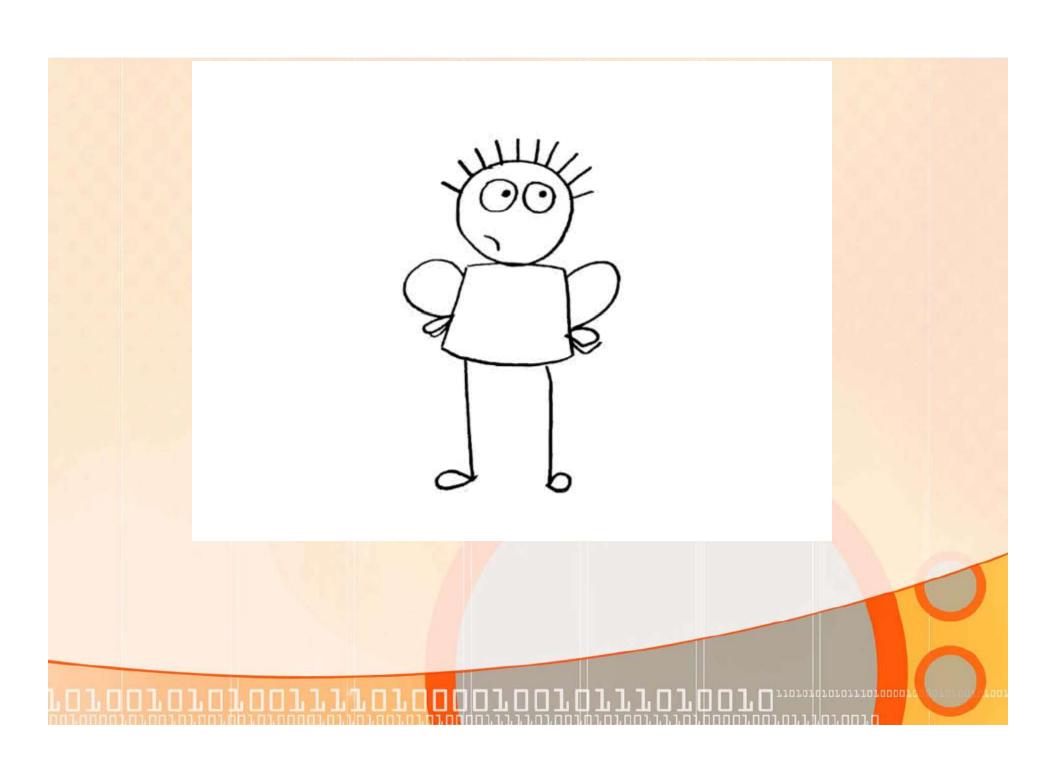
Flash Cards

 Quizlet is a free website that alows users to view, create and share flash card sets online

 Users can create their own cards or study with one of the thousands of existing sets of flashcards

http://quizlet.com/

http://quizlet.com/features/



Explore Quizlet



http://quizlet.com/

Prezi



Create astonishing presentations live and on the web

http://prezi.com/





Explore Prezi



http://www.prezi.com/

Collaboration

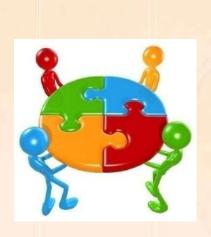
Collaborate

Merriam-Webster defines collaboration as: to work jointly with others or together especially in an intellectual endeavor



Collaborate with Other Schools

Teachers and students can develop working relationships with other schools around the country or world on various topics/subjects





Collaborating

- All grade levels
- All curriculum areas
- Local, National, Global Projects

Global Schoolhouse

http://www.gsh.org/

Stevens Institute of Technology

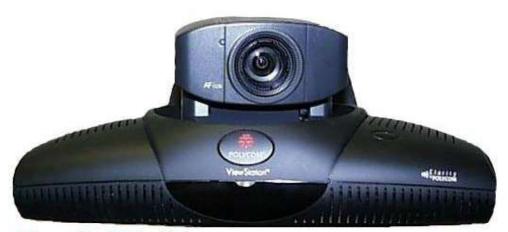
http://www.k12science.org/currichome.html

International Education And Resource Network

http://www.iearn.org/

http://media.iearn.org/projects

Videoconferencing (Polycom)



Polycom ViewStation Unit



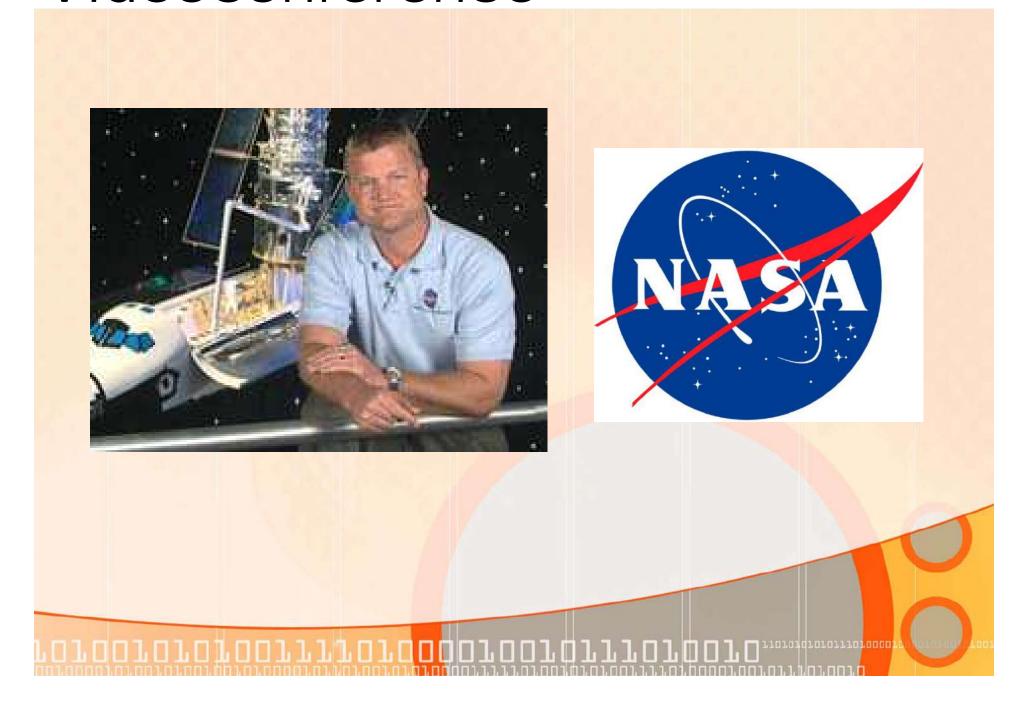




Rutgers U. Videoconference

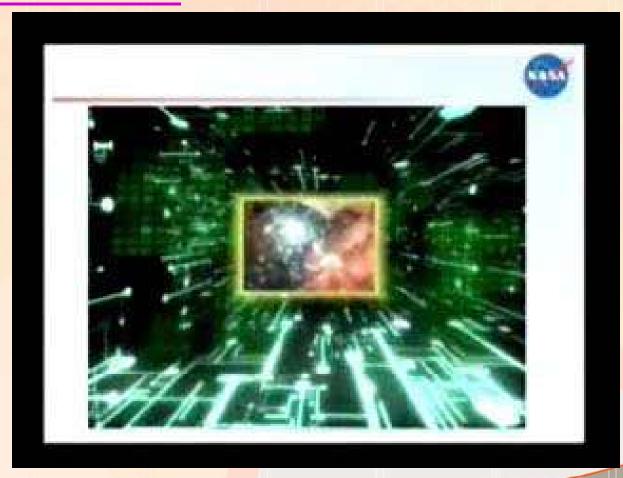


Videoconference

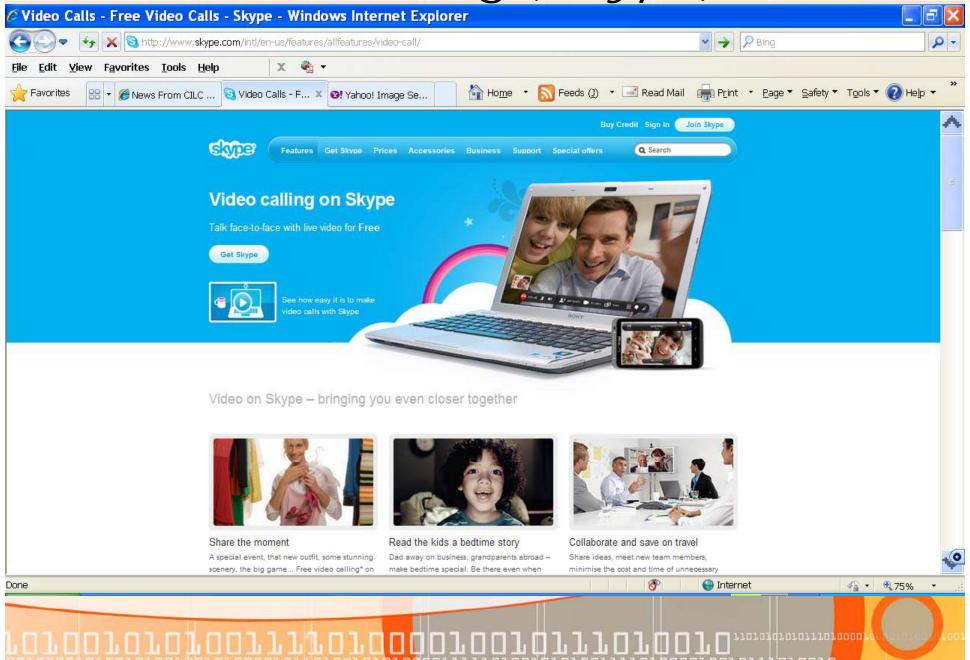


NASA's Distance Learning Network

http://www.nasa.gov/offices/education/programs/national/dln/index.html



Videoconferencing (Skype)

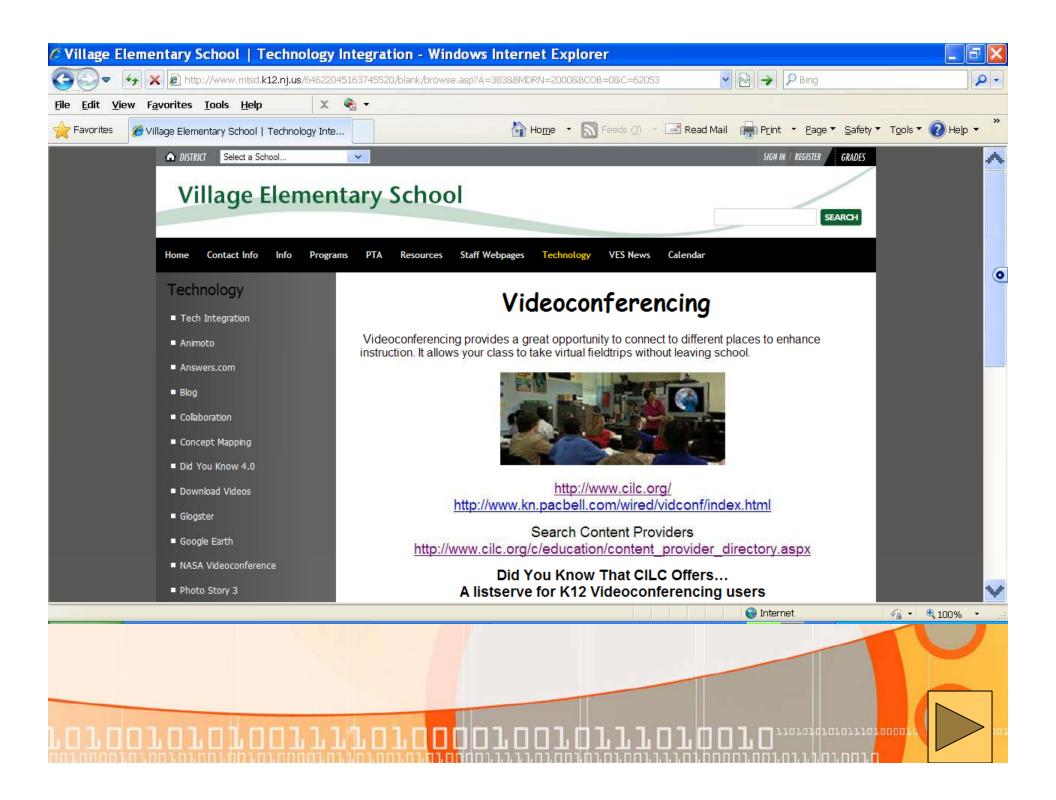




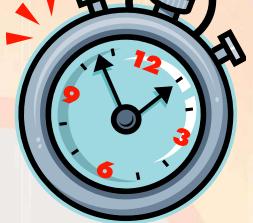
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Skype Education





Explore Collaborative-videoconferencing Sites



www.mtsd.k12.nj.us/integration

Because we want to avoid this...



Rubrics

Rubistar



http://rubistar.4teachers.org/index.php



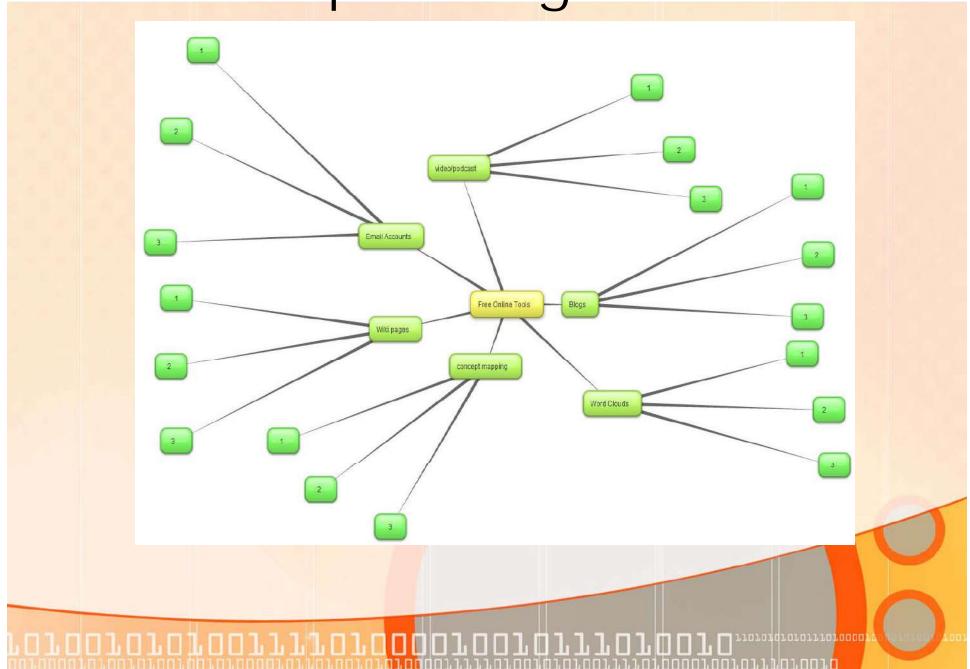


http://rubistar.4teachers.org/index.php



Graphic Organizers

Graphic Organizer



Graphic Organizer Web Sites

www.bubbl.us www.spinscape.com

Software for Concept Mapping Inspiration'9
Inspiration – www.inspiration.com

Explore

www.bubbl.us www.spinscape.com



Software for Concept Mapping Inspiration 9
Inspiration - www.inspiration.com

Web 2.0

Term describing the World Wide Web and web sites that aim to enhance creativity, information sharing and collaboration

Blogs
Video Sharing
Social Media
Wikis....

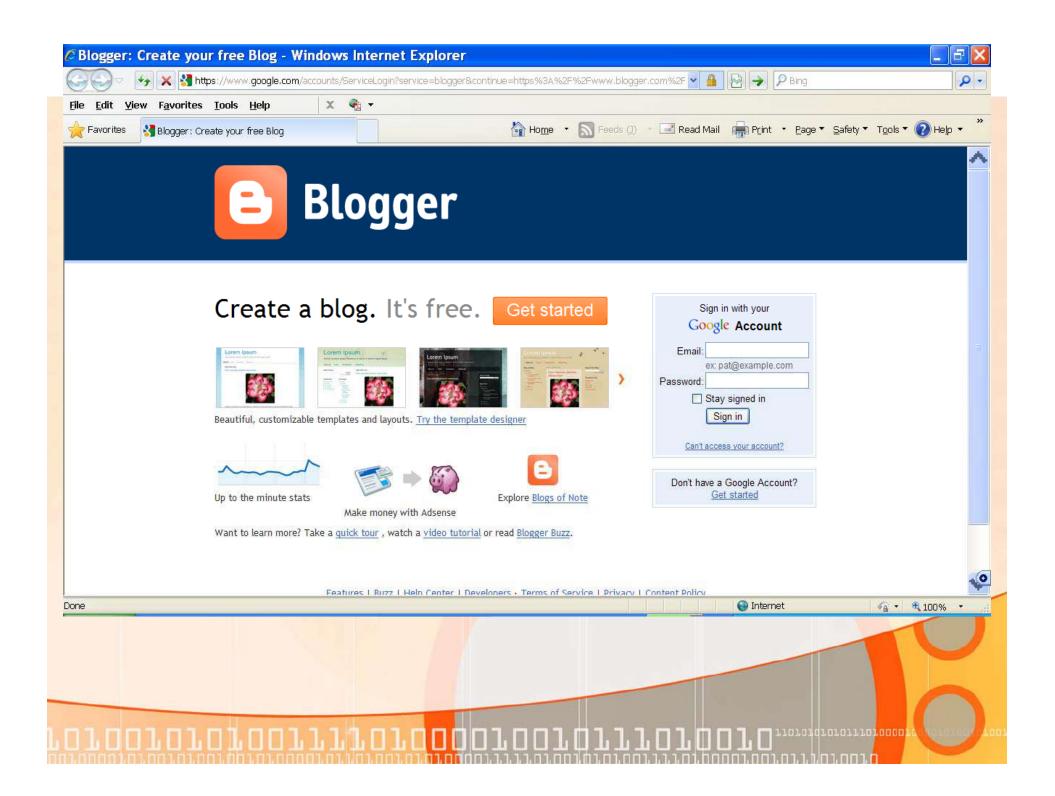
Blogs

Blogs

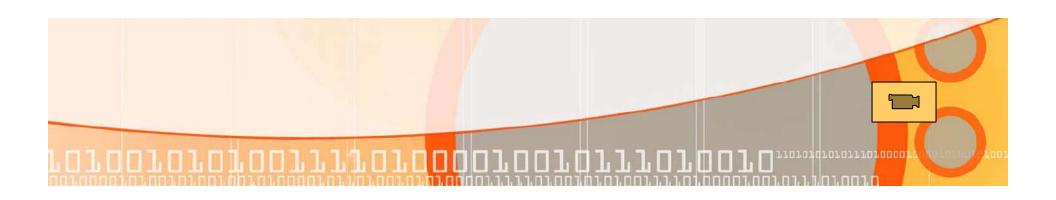
- The term blog is short for web log.
- A shared on-line journal where people can post entries about personal experiences, hobbies or respond to posted statements
- Postings on a blog are usually in chronological order

http://vesnewsnj.blogspot.com/www.blogger.com

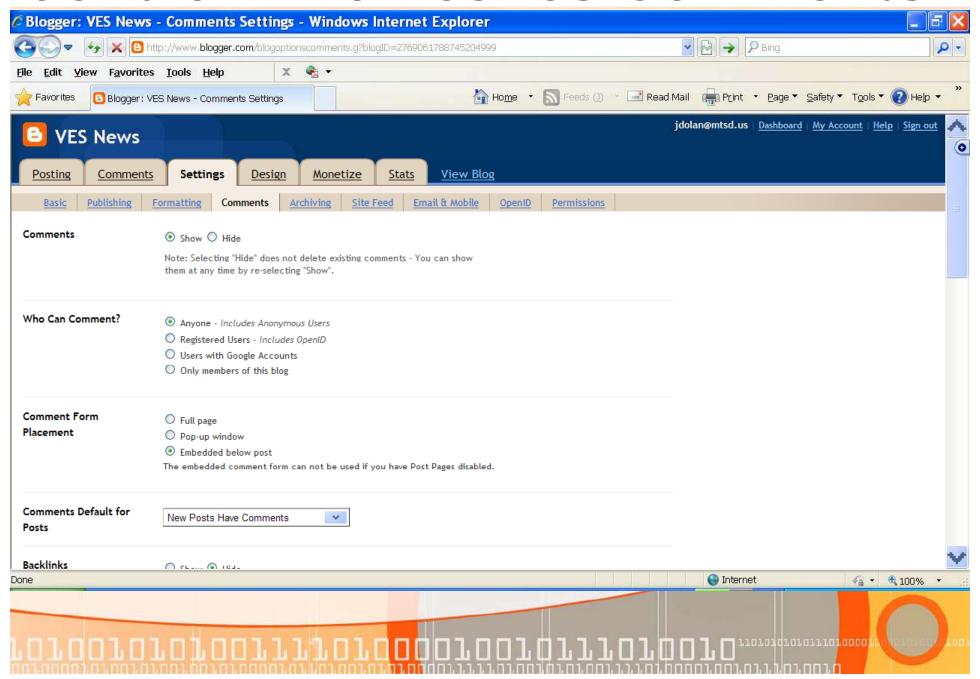




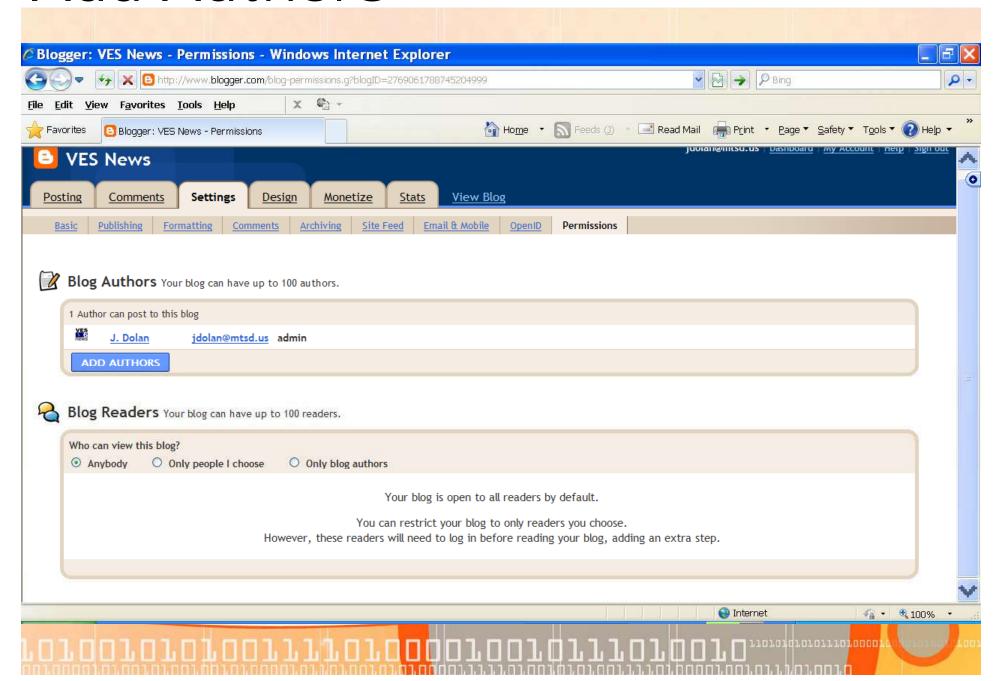
How to Create a Blog



Control Who Leaves Comments

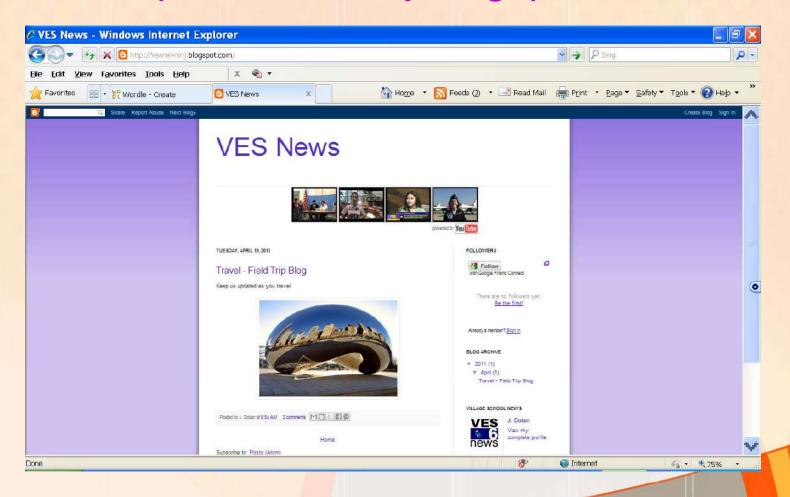


Add Authors



My Sample Blog

http://vesnewsnj.blogspot.com/



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More Blogging Web Sites

- www.blogger.com
- http://edublogs.org/
 - Compare http://edublogs.org/guide/
- www.classblogneister.com
- www.wordpress.com
- www.teachersfirst.com
- www.livejournal.com
- www.blogspot.com
- www.weebly.com





Explore Blogs



www.mtsd.k12.nj.us/integration



Wikis

Allows users to collaboratively create, edit, link, and organize the content of a web site

Usually for reference material

Teachers regularly use wikis for group projects

Is it reliable?



Wiki vs. Blog

- A Wiki is similar to a blog
- The difference is the ability for students to interact with information
- Blogs tend to be one way communication between the teacher and students
- Wikis are designed to be collaborative
- Places for students to share and work in cooperative groups

More About Wikis...

- Students can complete projects and assignments in groups or individually
- Student can contribute as long as they have Internet access
- Individual assignments or projects can be added to Wiki space

More About Wikis...

- Wikis are more than a place for writing
 - · Ideal for lessons, images, videos, etc.
- Allows teachers and students or students and students to collaborate in a dynamic process
- Teachers can collaborate with other teachers in thematic units, class projects, research, curriculum....

Wikis in Plain English



Wikis Ideas

- Problem Solving students can write about and provide images of where they applied math to solve a problem
- Students work in groups to solve challenging word problems
- Solve problems of the week

Wikis Have Controlled Access for Safety

Security and safety is not an issue, because teachers can control access

Viewing – teachers can open their Wiki to the public or limit to members only

Membership – teachers decide who can join; students, parents, invited guests, or the public

Wikis Have Controlled Access for Safety

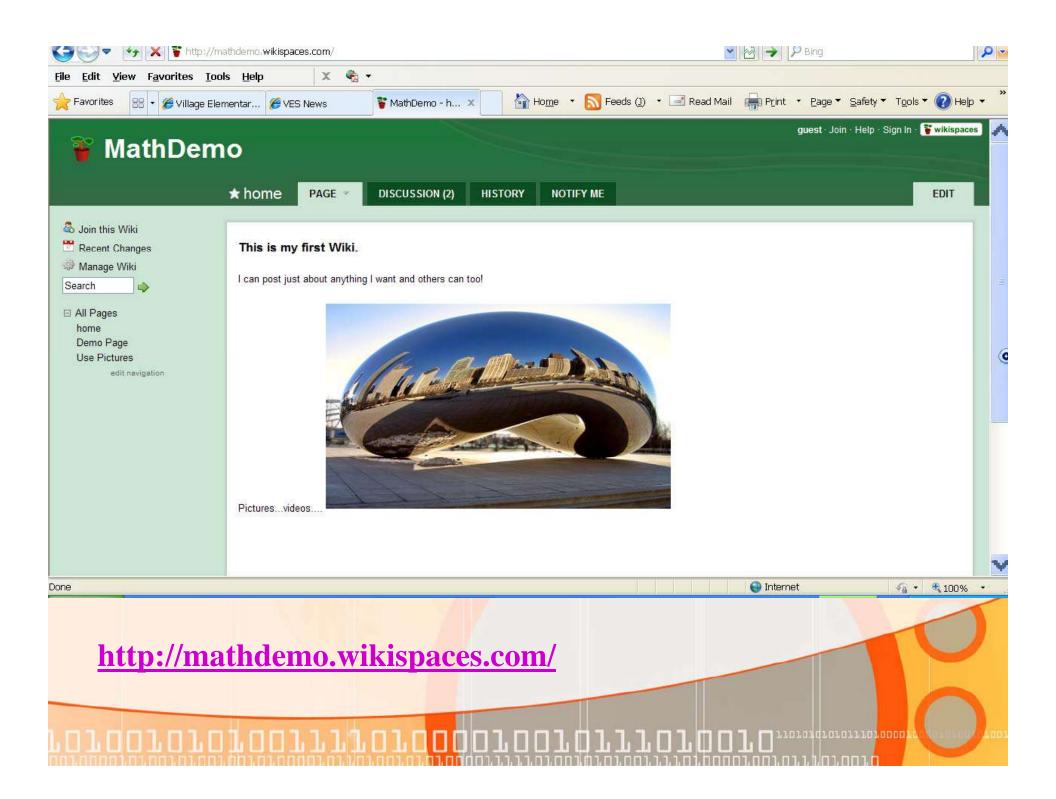
Protection – because of the collaborative nature of Wikis, teachers can lock specific sections so other members cannot modify

Moderation – teachers can moderate all aspects of their Wiki for appropriateness

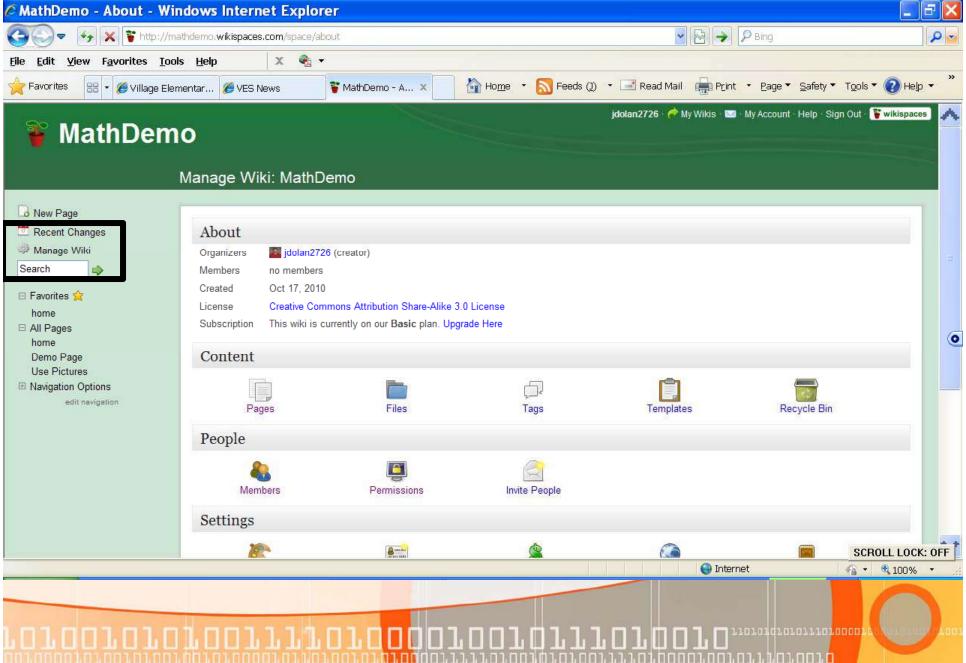
Notification – teachers can set up instant notification when a member makes a post or changes any aspect of the Wiki

Wikispaces Getting Started

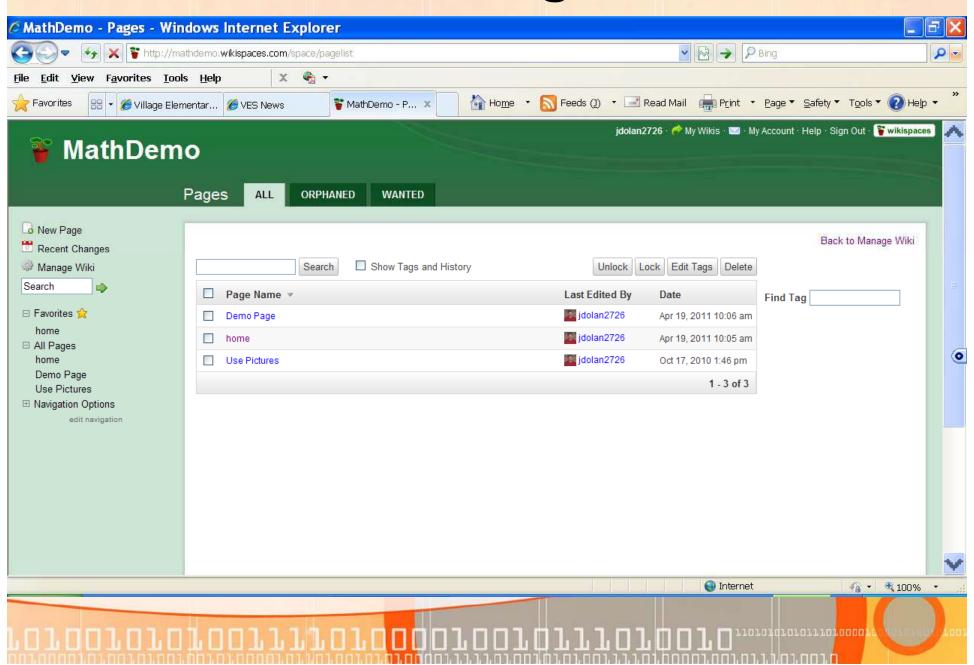




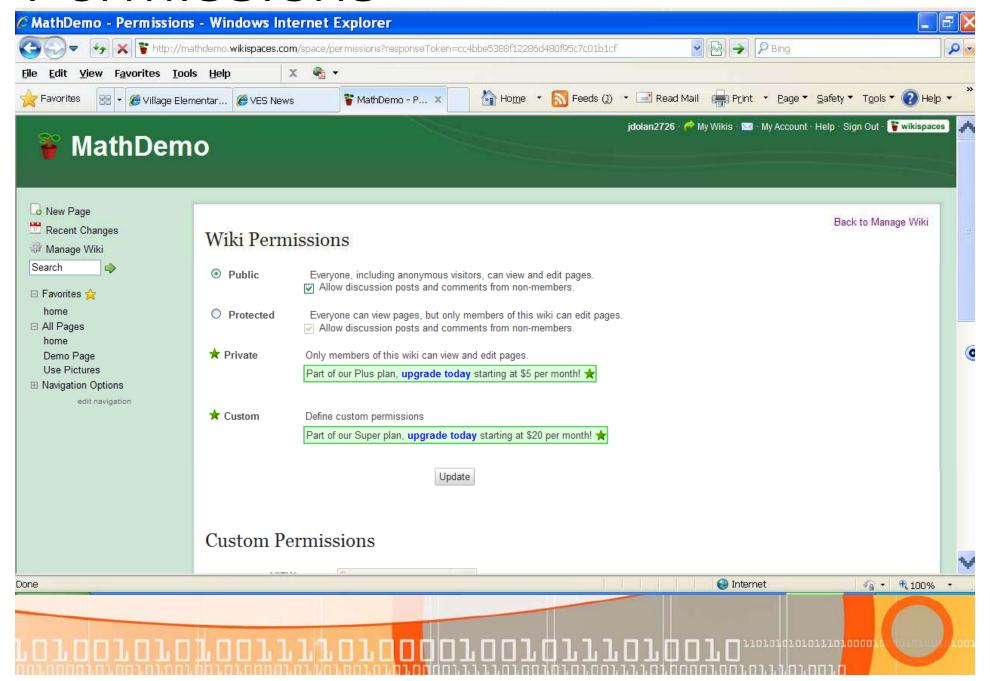
Manage Your Wiki



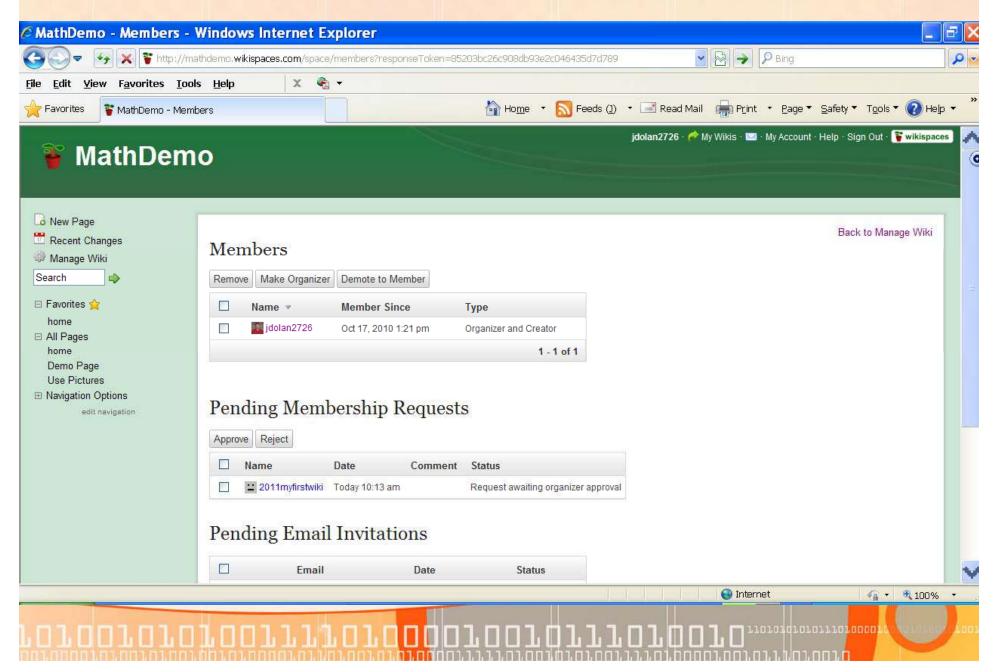
Lock & Unlock Pages



Permissions



Security- Members & Approval



Free sites for Wiki

- www.wikispaces.com
- www.wetpaint.com
- www.pbworks.com
- www.wiki-site.com
- www.sites.google.com
- Wiki Matrix (Compare)
 - http://www.wikimatrix.org/

www.mtsd.k12.nj.us/integration

Explore Wikis

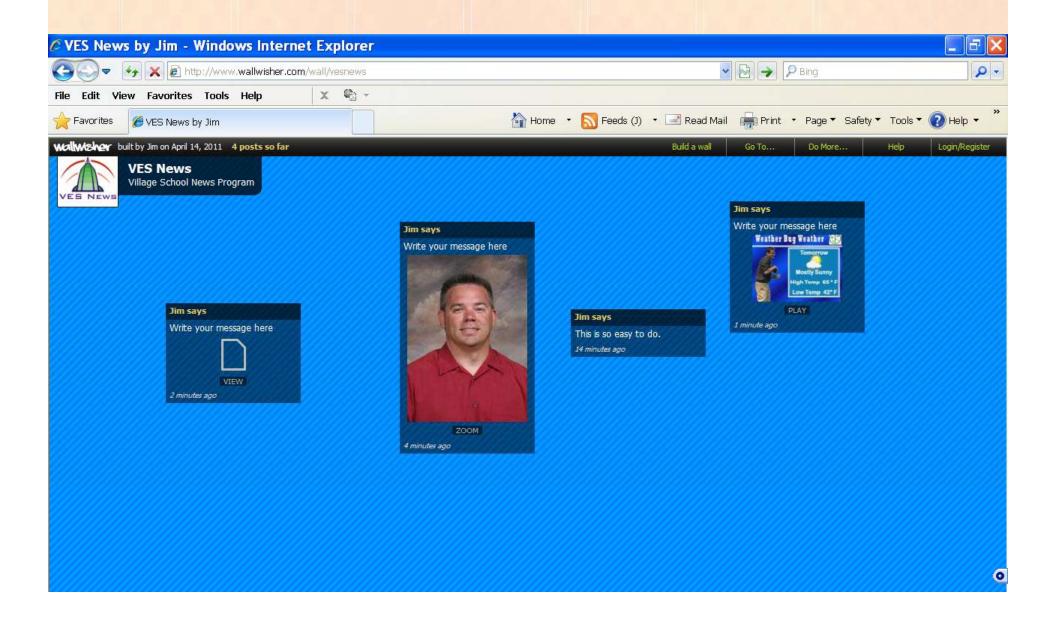


www.mtsd.k12.nj.us/integration

Wallwisher

Wallwisher

http://www.wallwisher.com/wall/vesnews



Wallwisher

- Build a "Wall" and others can add their own short messages – resemble POST-It Notes
 - Notes, Images, Videos
- Display assignments
- Generate discussions
- Review facts
- Share links

WALLWISHER.COM

Explore Wallwisher



Glogster

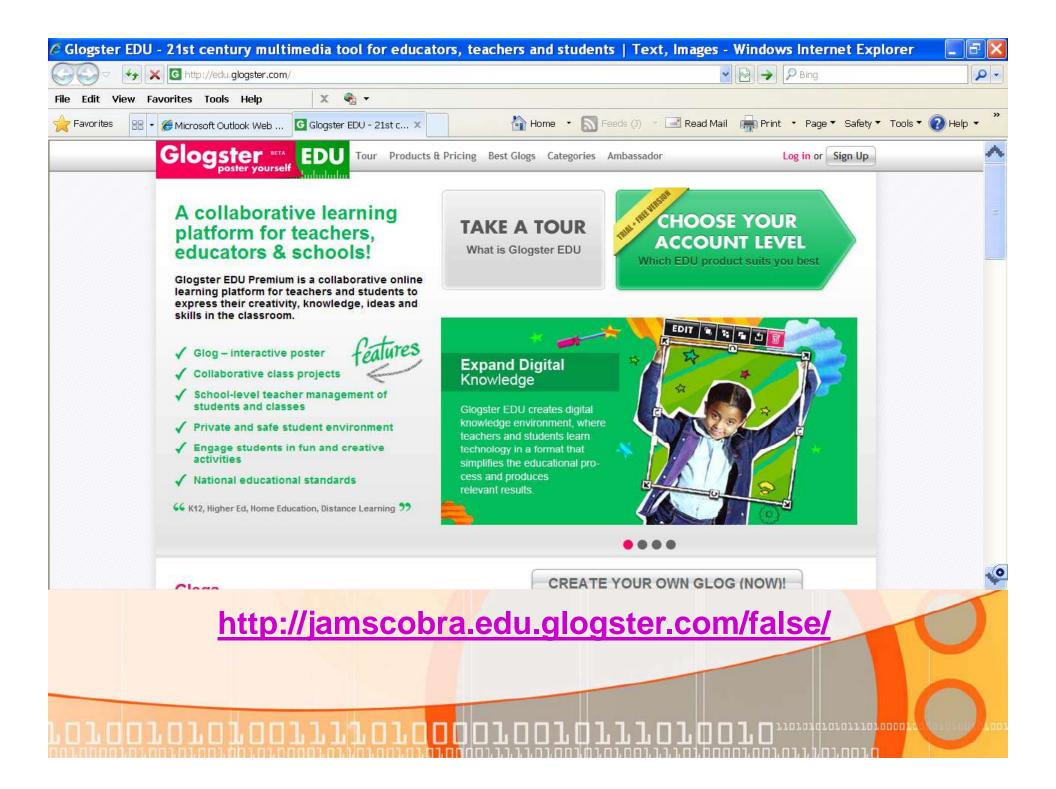
Glogster

 Make interactive posters and collages that combine text, audio, video, animation & data



- Allows students to collaborate on projects
- The basic teacher account, with limited features, is free

edu.glogster.com



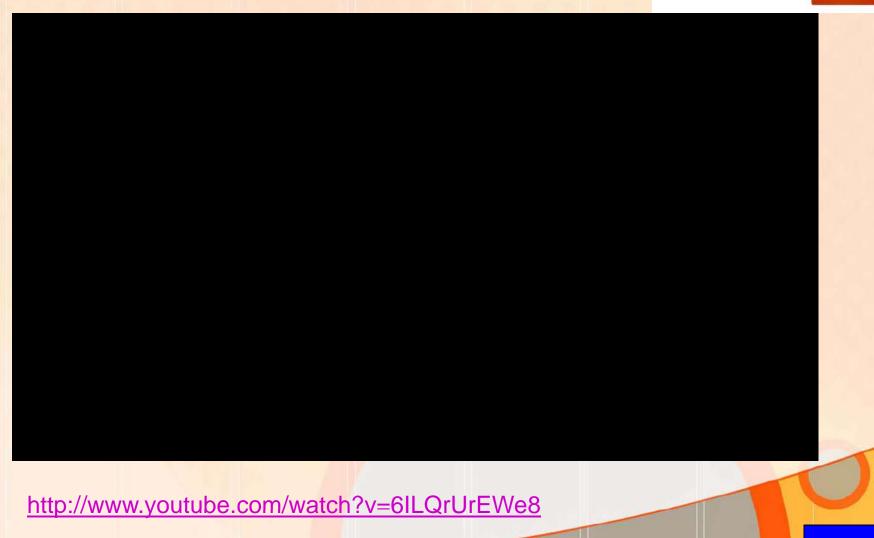


edu.glogster.com



Did You Know 4.0





Vision of K-12 Students Today





http://www.youtube.com/watch?v=_A-ZVCjfWf8

New Technology Sumsing Turbo 3000



http://www.youtube.com/watch?v=TYIOIM6hHBk

Over Confidence

