

Teachers and Web 2.0

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+ Google Apps and Tools

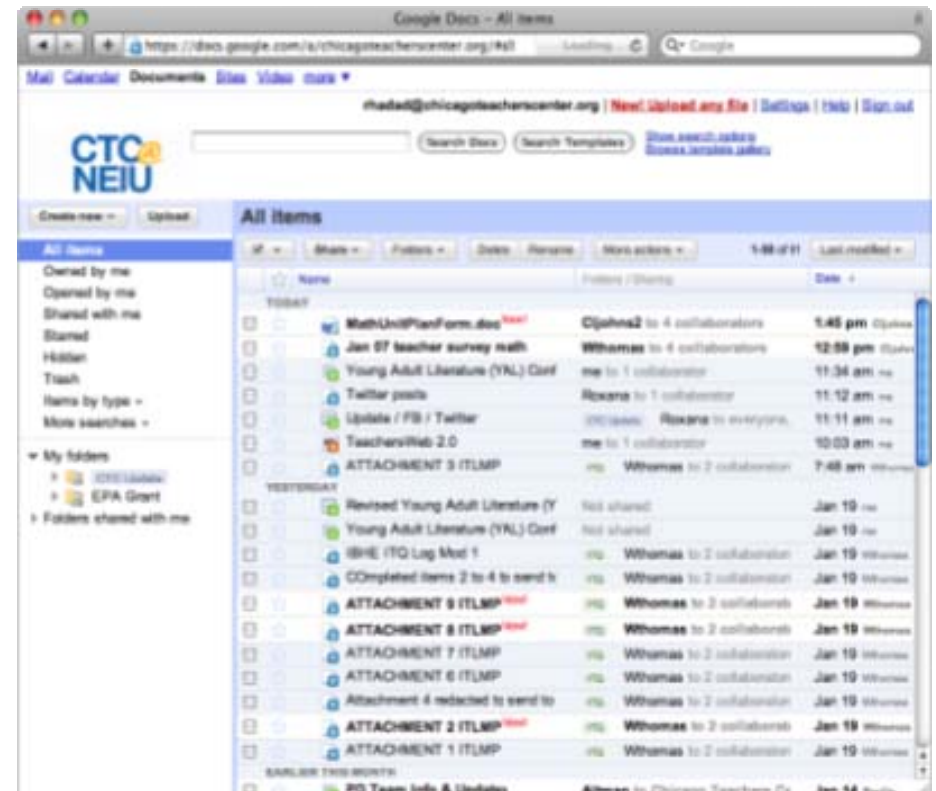


- Suite of office tools and more!
- Nothing lost
- Everything is searchable (Googleable?)
- The direction of the future, future, future, future, future
- Always updated/upgraded
- Free!

The Google logo, featuring the word "Google" in its signature multi-colored font (blue, red, yellow, blue, green, red) with a trademark symbol (TM) at the end.

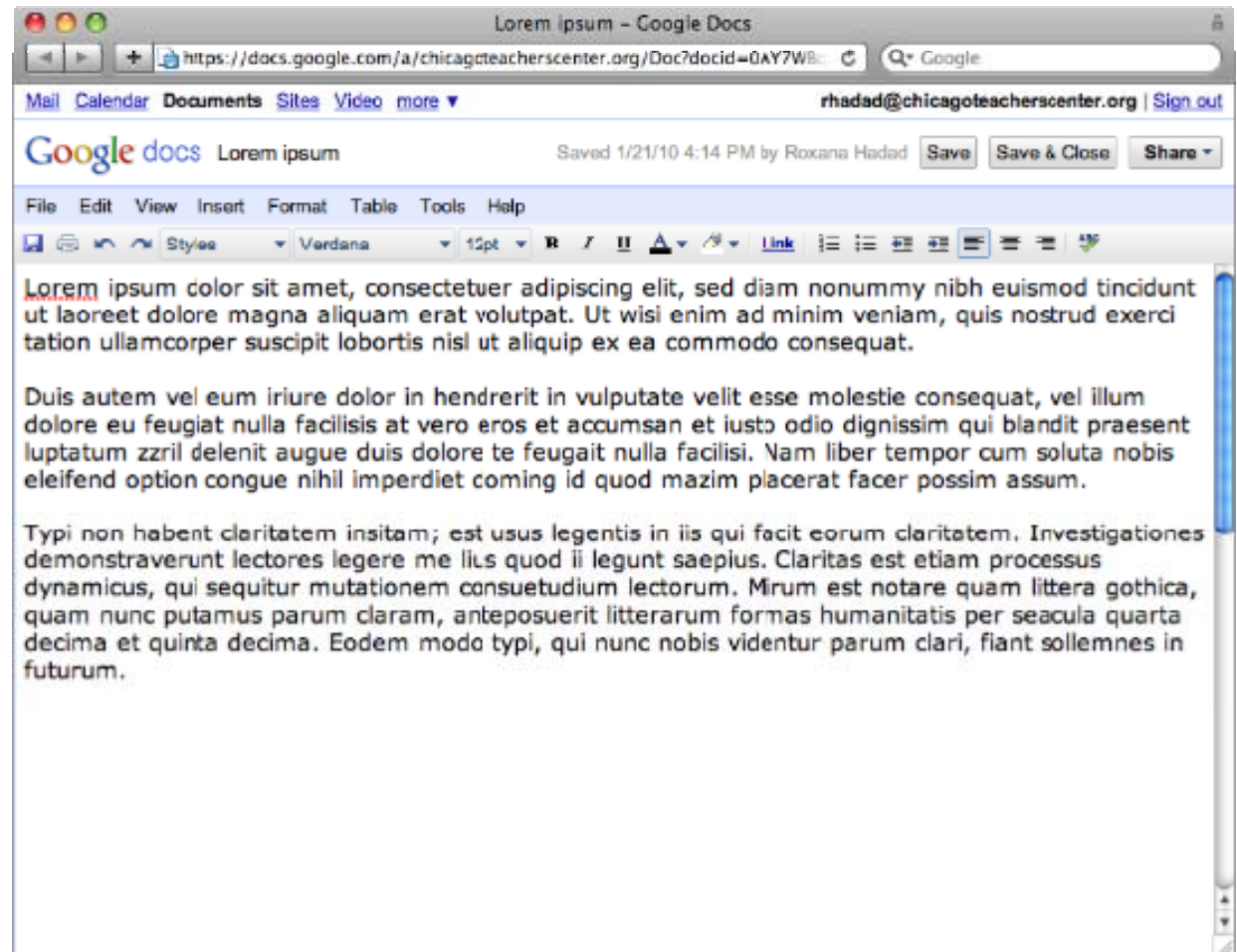
+ Google Docs

- Office Suite
 - Documents
 - Spreadsheets
 - Forms
 - Presentations
- Collaborative
- Always available
- Offline
- Can't lose anything!
- Google Alternatives: Acrobat.com, Zoho



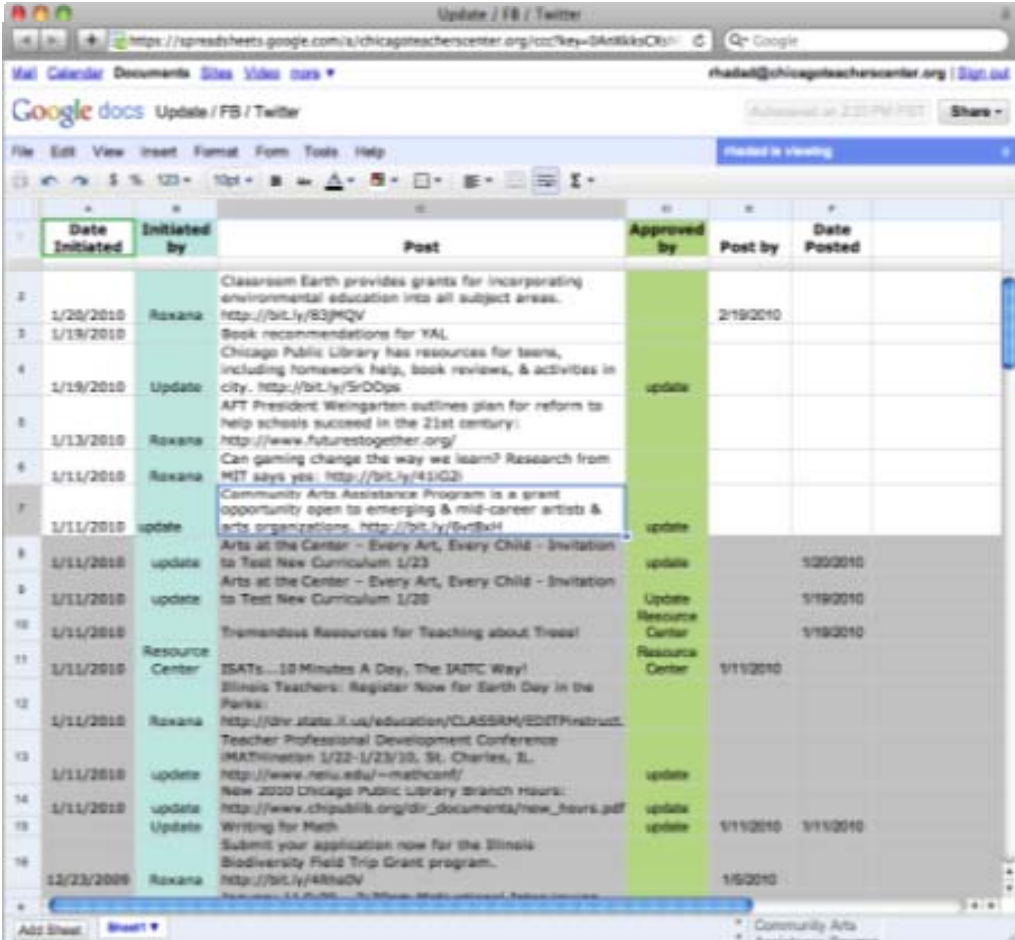
+ Google Documents

- Collaborate
- Revision history
- Comments
- Can export to Word, PDF, text



+ Google Spreadsheets

- Collaborate
- Revision history
- Comments
- Can export to CSV, Excel, PDF

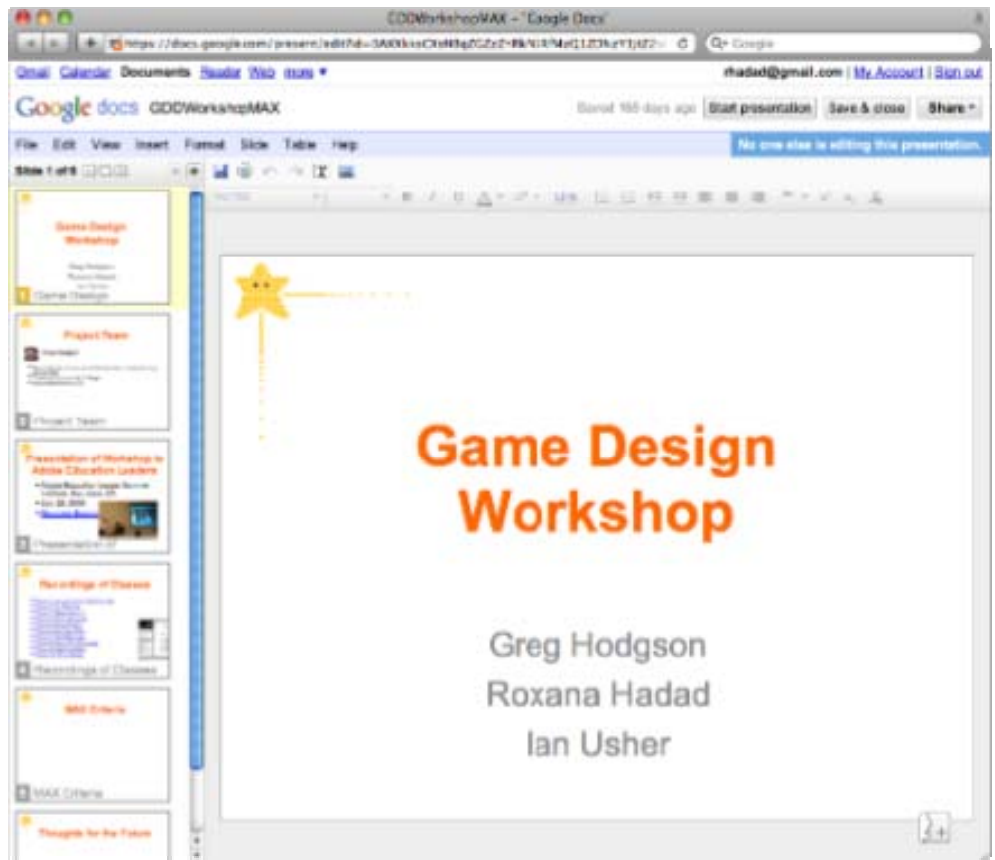


The screenshot shows a Google Spreadsheet interface with the following data:

Date Initiated	Initiated by	Post	Approved by	Post by	Date Posted
1/20/2010	Raxana	Classroom Earth provides grants for incorporating environmental education into all subject areas. http://bit.ly/83jKQV		2/19/2010	
1/19/2010		Book recommendations for YAL			
1/19/2010	Update	Chicago Public Library has resources for teens, including homework help, book reviews, & activities in city. http://bit.ly/5r00ps	update		
1/13/2010	Raxana	AFT President Weingarten outlines plan for reform to help schools succeed in the 21st century: http://www.futurestogether.org/			
1/11/2010	Raxana	Can gaming change the way we learn? Research from MIT says yes. http://bit.ly/41IG2			
1/11/2010	update	Community Arts Assistance Program is a grant opportunity open to emerging & mid-career artists & arts organizations. http://bit.ly/8v2BdH	update		
1/11/2010	update	Arts at the Center - Every Art, Every Child - Invitation to Test New Curriculum 1/23	update		1/20/2010
1/11/2010	update	Arts at the Center - Every Art, Every Child - Invitation to Test New Curriculum 1/20	Update Resource Center		1/19/2010
1/11/2010	Resource Center	Tremendous Resources for Teaching about Trees!	Resource Center		1/19/2010
1/11/2010		ISATs...10 Minutes A Day, The IATC Way!			
1/11/2010	Raxana	Illinois Teachers: Register Now for Earth Day in the Parks: http://div.state.il.us/education/CLASSRM/EDITEPstruct			
1/11/2010	update	Teacher Professional Development Conference (MATH)ation 1/22-1/23/10, St. Charles, IL. http://www.nctm.edu/~mathconf/	update		
1/11/2010	update	New 2010 Chicago Public Library branch hours: http://www.chipublib.org/dr_documents/new_hours.pdf	update		
	Update	Writing for Math	update	1/11/2010	1/11/2010
		Submit your application now for the Illinois Biodiversity Field Trip Grant program. http://bit.ly/4RhdQV			
12/23/2009	Raxana			1/6/2010	

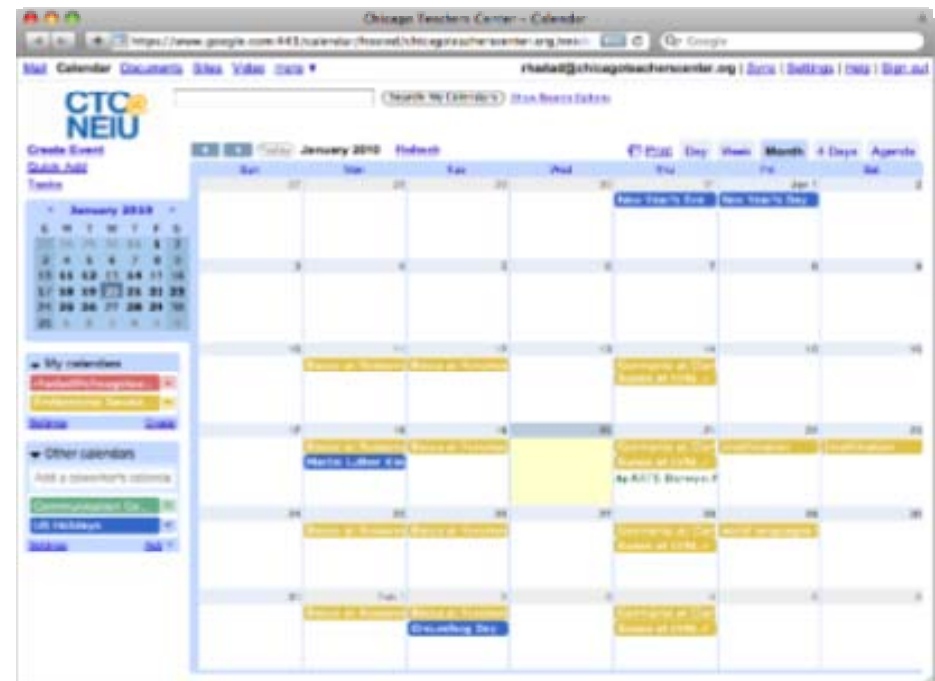
+ Google Presentations

- Collaborate
- Revision history
- Comments
- Can export to PowerPoint, PDF, text



+ Google Calendar

- Share calendars
 - Team schedules
 - Assignment deadlines
 - School holidays
- Sign up (or get signed up) for the calendars you want to see.
- Calendars change dynamically
- Can be synched with other calendar programs



+ Google Sites

- Easy-to-create websites
- Bring together all the information you want to share with your colleagues and students,
 - docs
 - calendars
 - photos
 - videos
- Google Alternatives: PBwiki



+ Geo Education

- Google Earth
- Google Maps
- Google Sky
- SketchUp

The image shows a screenshot of the Google For Educators website, specifically the 'Geo Education' section. The page features a header with the Google logo and 'For Educators' text. Below the header, there is a main heading 'Geo Education' and a welcome message. The main content area is divided into four sections, each with a title, a small image, and a brief description:

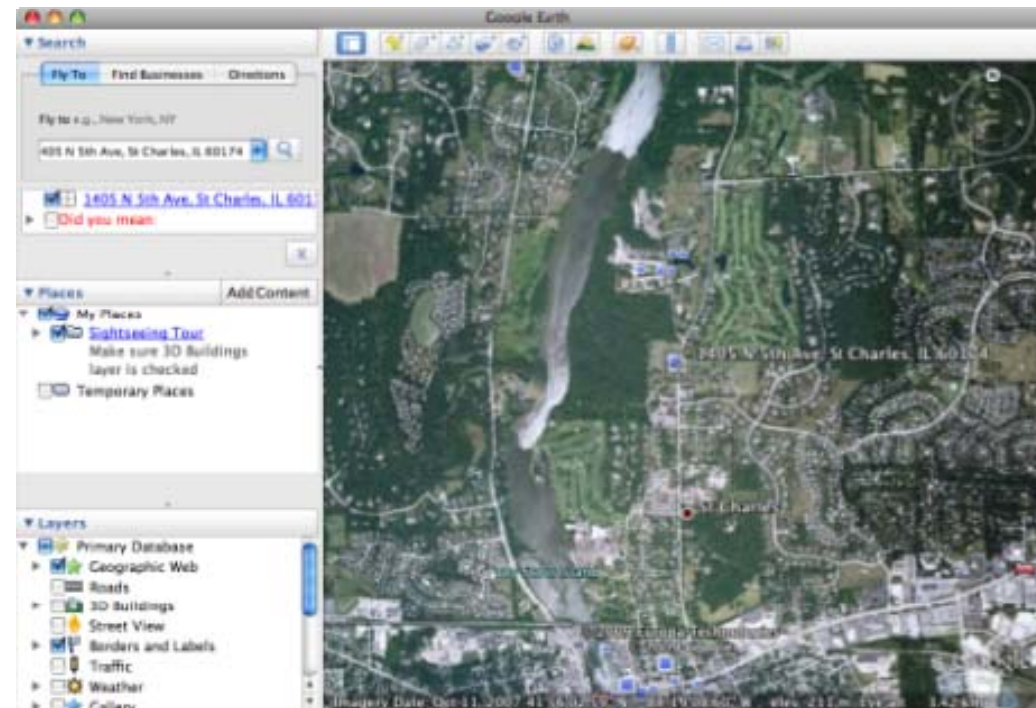
- Google Earth:** Google Earth continues to excite young people with its ability to put the world's geographic information at their fingertips. Teachers across the globe have created engaging classroom activities that go beyond geography to teach science, history, math, environmental science, and more. [Learn more](#)
- Google Maps:** Google Maps, used daily by millions around the world, can be used in the classroom to explore subjects ranging from science to environmental science. With just an internet connection and your imagination, your class can collaborate to build a *MyMap* of favorite resources or create a virtual atlas of distant cities with StreetView. [Learn more](#)
- Google Sky:** Whether you teach astronomy or simply want to bring the wonder of the night sky to your students, Google Sky provides an unparalleled look at millions of stars and galaxies. Complement your field trip to the observatory by viewing the solar system in your classroom. [Learn more](#)
- Google SketchUp:** With Google SketchUp, anyone can create, modify and share 3D models. Whether your students choose to recreate distant landscapes or model the world around them, they will look at design in a whole new way. [Learn more](#)

Four purple arrows originate from the example images in the top row and point to the corresponding product descriptions in the bottom row. The top row images are: a night sky with a dinosaur, a desert landscape with the Great Pyramids, a modern building, and a 3D architectural model of a building.

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+ Google Earth

- Satellite imagery-based mapping product .
 - It enables users to "fly" from space to street level to find geographic information and explore places around the world.
- **Classroom Ideas**
- **Biology:** Track routes of chimpanzees in Tanzania's Gombe Forest.
- **Math:** Explore distance, velocity, and wave properties of tsunamis
- **Environmental Science:** Have students check Alaska's global warming problems. See how the Sierra Club used Google Earth to depict this problem [here](#).



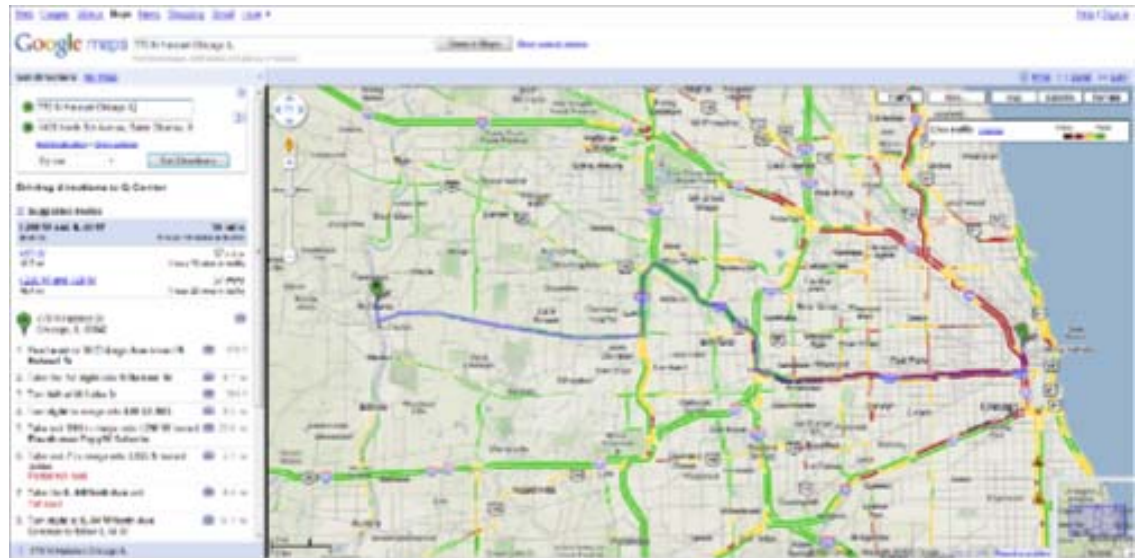
+ Google Maps

- Intuitive service for navigating global maps information.
 - It enables you and your students to look up and study addresses anywhere in the U.S. and in many other countries and get point-to-point, draggable directions plotted on an interactive street map.

Google Maps

- **Classroom Ideas**

- **Earth Science:** Use this Google Maps Mashup to locate and learn about recent earthquakes around the world.
- **Physics:** Learn how one teacher used Google Maps with his 9th grade class to teach speed, velocity and displacement.



+ Google Sky

- With the new Sky feature, you can teach your students about astronomy while zooming around the universe.
 - Real imagery from the Hubble Space Telescope is stitched together with imagery of the rest of the sky to give your students a unique experience.
- **Google Earth 4.3 or sky.google.com**
- **Classroom Ideas**

- **Stargazing**
- **Stars**
- **Planets**
- **Galaxies**
- **Mythology**

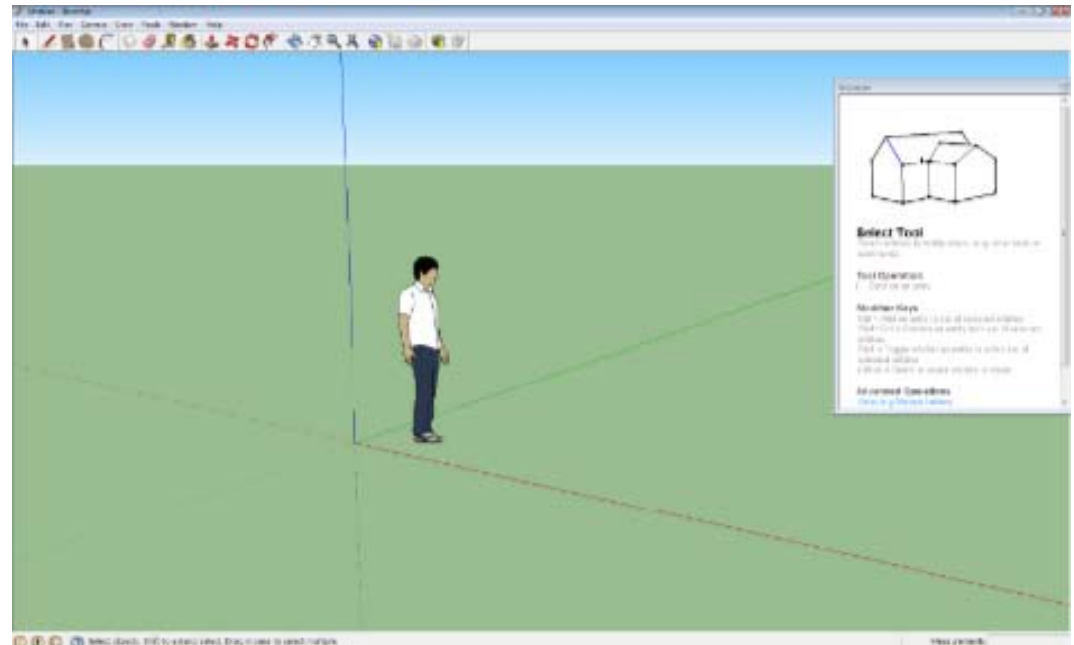


+ SketchUp



- A great tool for easily teaching kids to construct 3D models of buildings, trees, cars, and the like.
 - Can be use as a stand-alone tool, or in conjunction with Google Earth and the 3D Warehouse Google Maps
- K-12 Education

- **Architecture & Design**
- **Engineering**
- **Construction**
- **Digital Entertainment**
- **Education**
 - **Student Bridge Modeling Competition**



+ Book Search

- search the full text of books,
 - popular
 - out-of-print
 - public domain ,
- browse available pages
- find online reviews
- learn where to buy the book or check it out of a nearby library
- in some cases, you can read the entire title online



+ Blogger

- Easy-to-create class blogs
- Teachers & students can share work, class notes, and pictures online
- Private blogs for classes' eyes only
- Google Alternatives: Wordpress, LiveJournal, TypePad



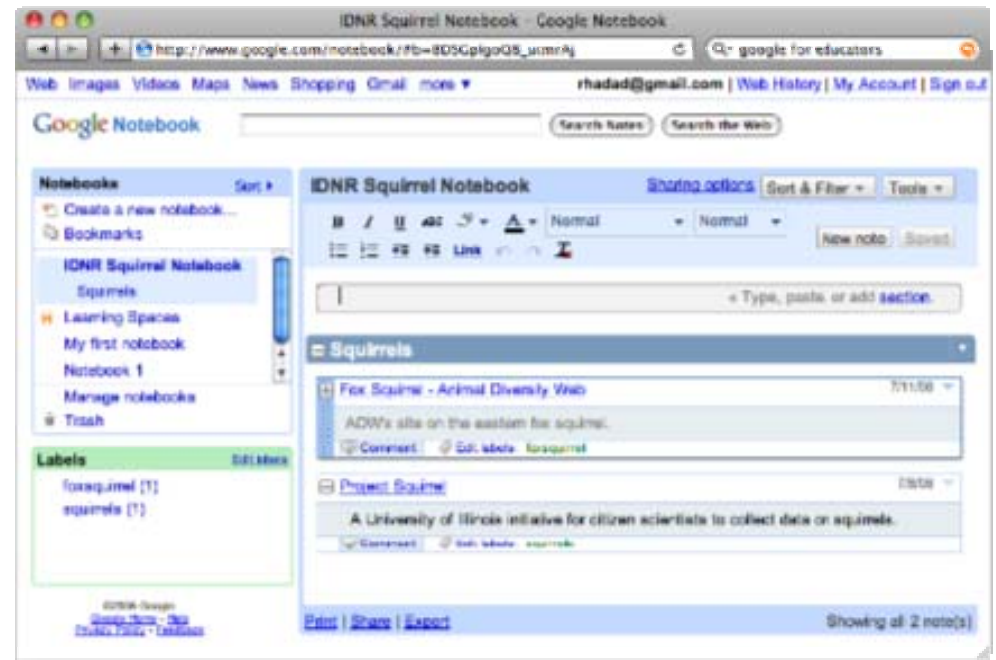
+ Custom Search Engine

- Create a personalized, customized search engine that searches only across sites that you specify
- Get your own landing page with a unique URL
- Apply your own site's look and feel
- Others can collaborate and contribute to your search engine



+ Google Notebook

- Save clippings from website
- Add your own thoughts or comments to clippings
- Organize clippings into different notebooks
- Search the text of your own or public notebooks
- Invite collaborators to contribute to your notebook
- Share the information in your notebook



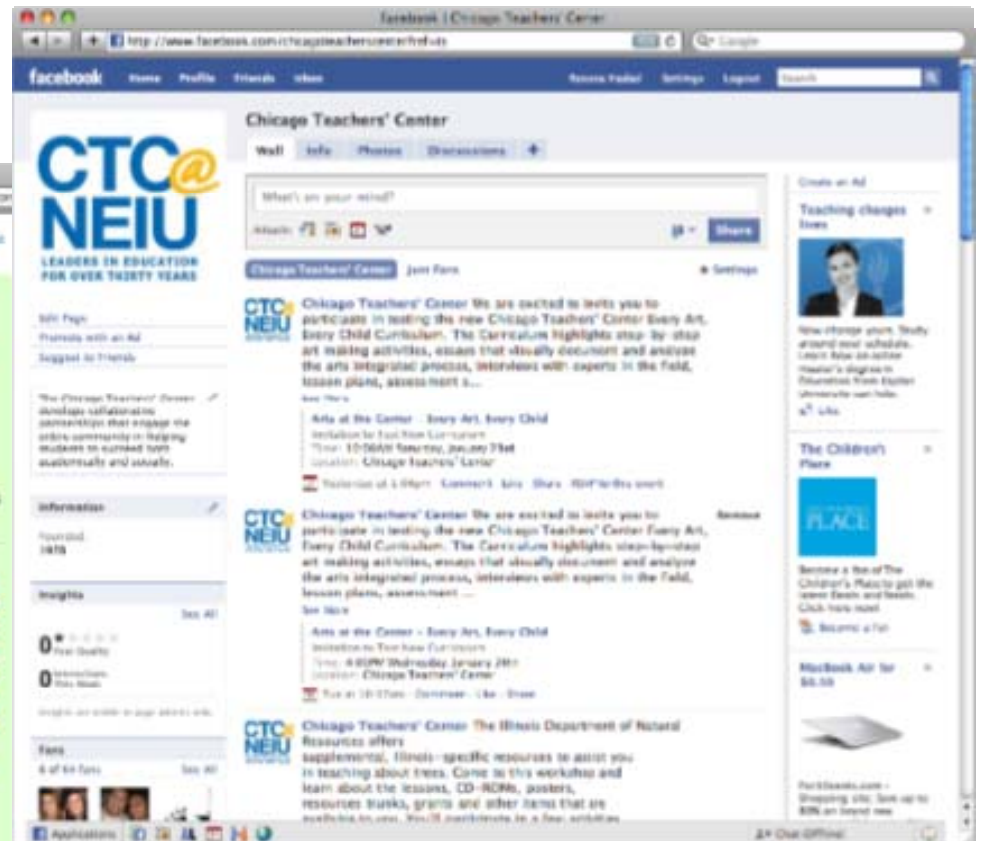
+ Google Apps for Education

- Google Apps Education Edition is a broad IT solution that schools can use to bring communication and collaboration tools to the entire academic community for free.
- Google manages all the technology.
 - Gmail
 - Google Talk
 - Google Calendar
 - Google Docs
 - Google Sites



+ Twitter and Facebook

- Learn about more professional development opportunities by following us on Twitter or Facebook!



+ Next Steps



- To learn more, or develop materials for units, please contact us!

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