



Google™ in Education

30 Ways to Use Chromebooks in Schools

created by: +Tom Gierke
+Becky Evans

Core Chromebook Activities



Drive

Create and Collaborate



Google+

Share and Connect



Chrome Web Apps

Do more with the web



Flipping the Classroom

Teacher as a facilitator



Open Educational Resources

Beyond Textbooks



Assessments

Using achievement data to improve learning



Google Drive



Docs



Sheets



Slides

1. Collaborate on lesson plans

Use Docs to work on the *same* lesson plan at the *same* time with a colleague.

Health Lesson Plan

File Edit View Insert Format Tools Table Help All changes saved in Drive

Normal text Arial 11 B I U A

1 2 3 4 5 6 7

Fresh Foods From Farm-to-Table

Time Frame:
2 class periods plus 1 more to elaborate the learning to focus on their local agriculture.
(Note to teacher: If necessary, the lesson can be modified to fit into one session. Teachers can eliminate the KWL activity, use an individual summarizer instead of the carousel activity, and combine the computer based activities.)

Overview:
In this lesson, students explore the concept of farm-to-table. In the beginning of the lesson, students enjoy acting out verbs that they will later discover to be the steps of the farm-to-table process for eggs. Students draw on their background knowledge to formulate questions that guide their learning. Then, using online resources, students will explore and take note of the various phases of the production process. Following this, students connect what they have learned to egg production in their home state and compare agriculture of their state to another of their choice. Finally, students demonstrate their learning by sequencing and explaining what they have learned.

Objectives:

- Students will be able to identify and explain the steps that fresh foods, such as eggs, go through in the production and delivery process from farm-to-table.

Becky Evans
3:33 AM Today
Do we have 3 class periods to devote to this lesson?
[Edit](#) [Delete](#) [Resolve](#)

Jeff Klein
3:34 AM Today
Let's see if we can cut it down to two...

2. Improve the writing process

Have students work collaboratively from anywhere.

Give students ongoing and simultaneous feedback.

Use revision history to hold students accountable for their work.

Fairy Tale Essay

Last edit was made 2 minutes ago by becky

FileEditViewInsertFormatToolsTableHelpNormal textAria11BILUAA[Icons]

The cat said,
"Meiaow", which really meant, "Cheer up! You have something neither of your
stepsisters have and that is beauty."
It was quite true. Cinderella, even dressed in rags with a dusty grey face from the
cinders, was a lovely girl. While her stepsisters, no matter how splendid and elegant
their clothes, were still clumsy, lumpy and ugly and always would be.
One day, beautiful new dresses arrived at the house. A ball was to be held at Court and
the stepsisters were getting ready to go to it. Cinderella, didn't even dare ask, "What
about me?" for she knew very well what the answer to that would be:
"You? My dear girl, you're staying at home to wash the dishes, scrub the floors and turn
down the beds for your stepsisters. They will come home tired and very sleepy."

Cinderella sighed at the cat.
"Oeh dear, I'm so unhappy!" and the cat murmured, "Meoiaew".
Suddenly something amazing happened. In the kitchen, where Cinderella was sitting all
by herself, there was a burst of light and a fairy appeared.
"Don't be afraidalarmed, Cinderella," said the fairy. "The wind blew me your sighs. I
know you would love to go to the ball. And so you shall!"
"how can I, dressed in rags?" Cinderella replied. "The servants will turn me away!" The
fairy smiled. With a flick of her magic wand... Cinderella found herself wearing the most
beautiful dress, the loveliest ever seen in the realm.
"Now that we have settled the matter of the dress," said the fairy, "we'll need to get you a
coach. A real lady would never go to a ball on foot!"
"Quick! Get me a pumpkin!" she ordered.
"Oh of course," said Cinderella, rushing away. Then the fairy turned to the cat.
"You, bring me seven mice!"

Make this sentence more descriptive. —becky | I think is a good idea. —mgutknecht

Revision history

February 15, 2011, 11:14 AM

jeff kevinj becky

February 7, 2011, 8:14 AM

jeff becky

February 6, 2011, 11:42 PM

jeff becky

January 26, 2011, 2:51 PM

becky

October 29, 2010, 9:46 AM

becky

October 28, 2010, 2:42 PM

becky

October 22, 2010, 11:12 AM

becky

October 22, 2010, 9:42 AM

becky

October 21, 2010, 4:46 PM

mollyyw

October 21, 2010, 4:46 PM

anht mollyyw Restore this revision

October 21, 2010, 4:29 PM

mollyyw

3. Collect, share and analyze data

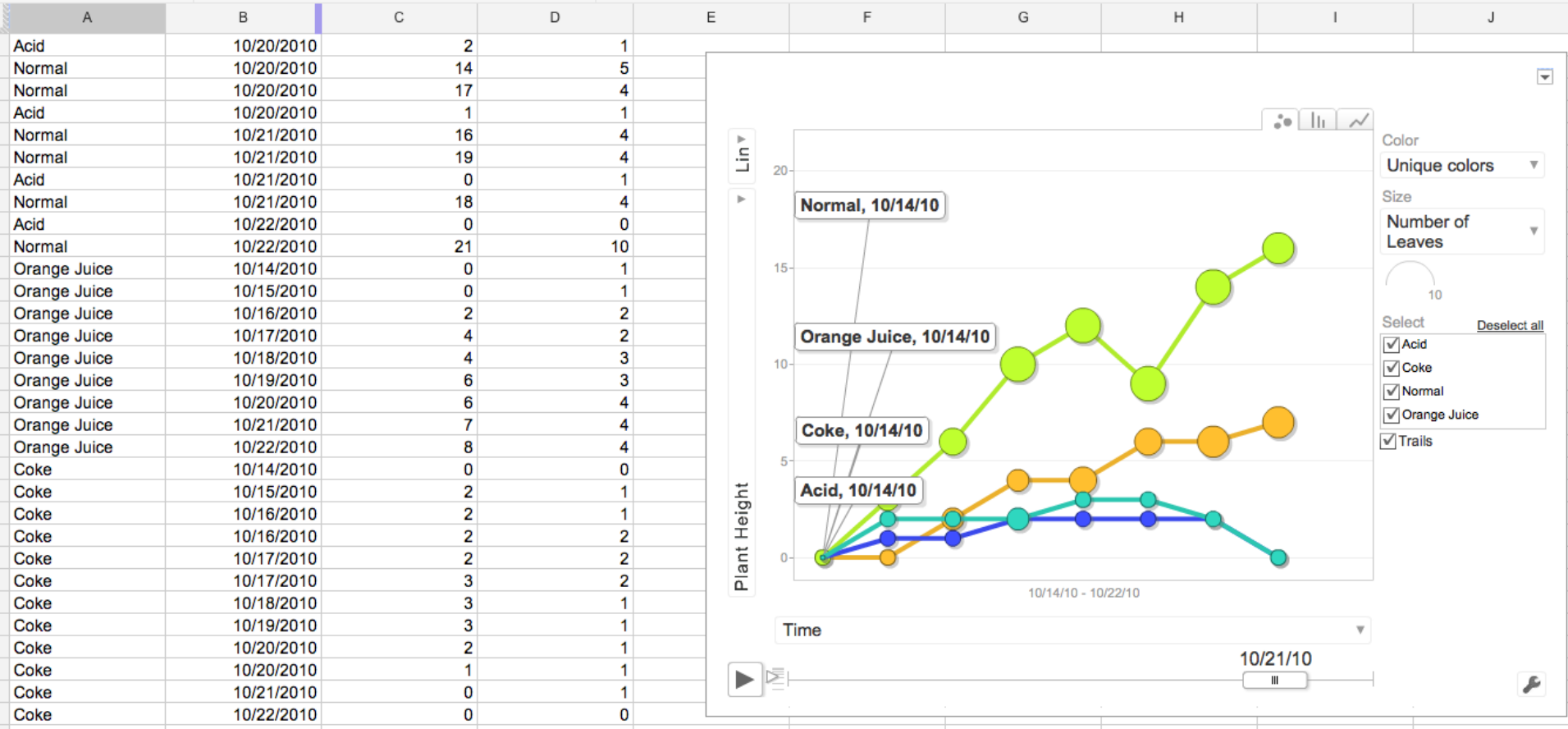
Collect data in a sheet, then use charts and gadgets - like the motion chart - to graph and analyze the data.

trix_2012.42-

Plant Data Extra ★

File Edit View Insert Format Data Tools Help All changes saved in Drive

File Edit View Insert Format Data Tools Help All changes saved in Drive



4. Research Tools in Presentations

Students can drag and drop images, cite sources, and search for quotes that bring presentations to life

Grizzly Bear Project ☆

File Edit View Insert Slide Format Arrange Tools Table Help All changes saved in Drive

tgierke@google.com

Present Comments Share

Background... Layout Theme... Transition...

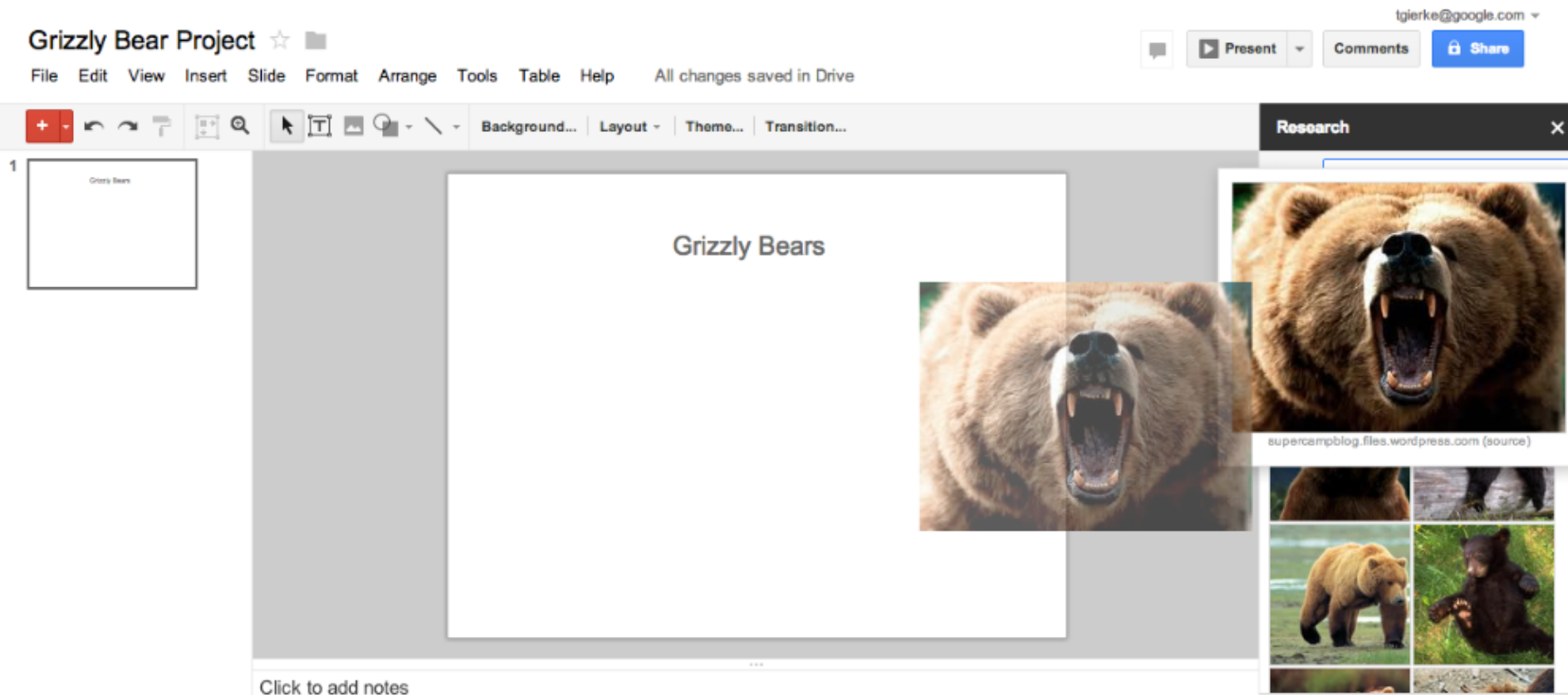
1 Grizzly Bears

Grizzly Bears

Click to add notes

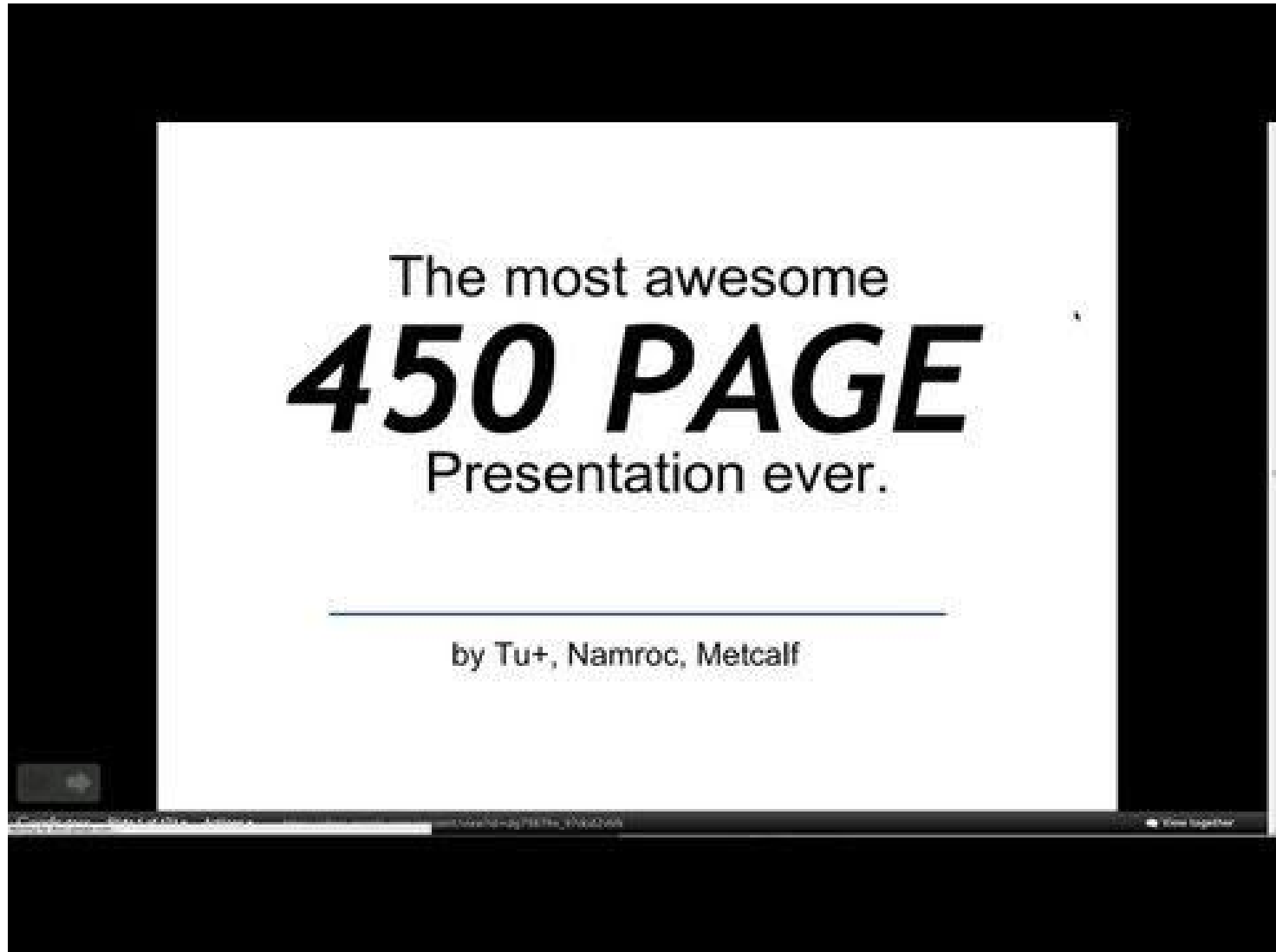
Research

supercampblog.files.wordpress.com (source)



5. Create amazing presentations

Use Slides to create engaging and dynamic presentations (like this one).

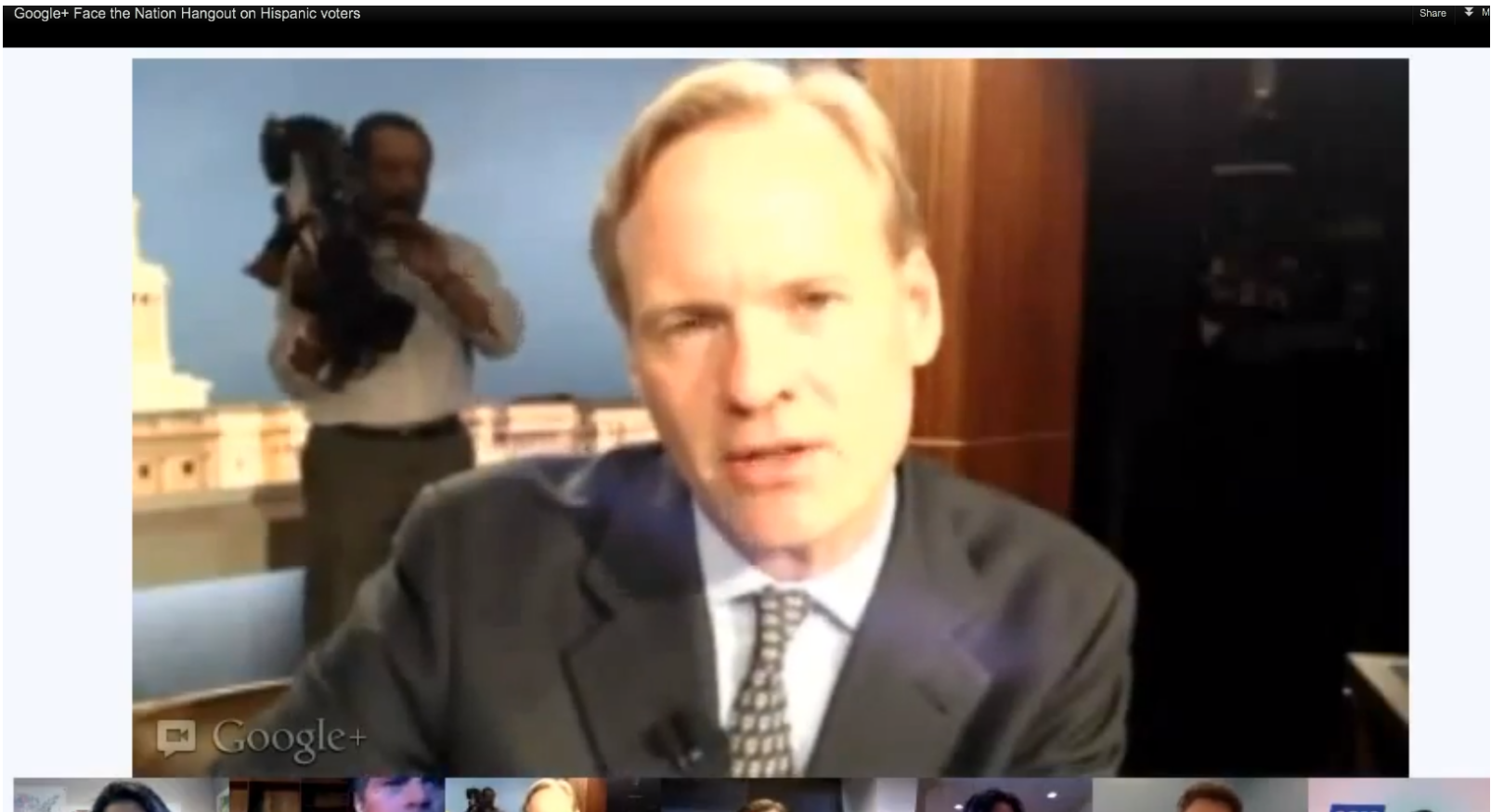




Google+

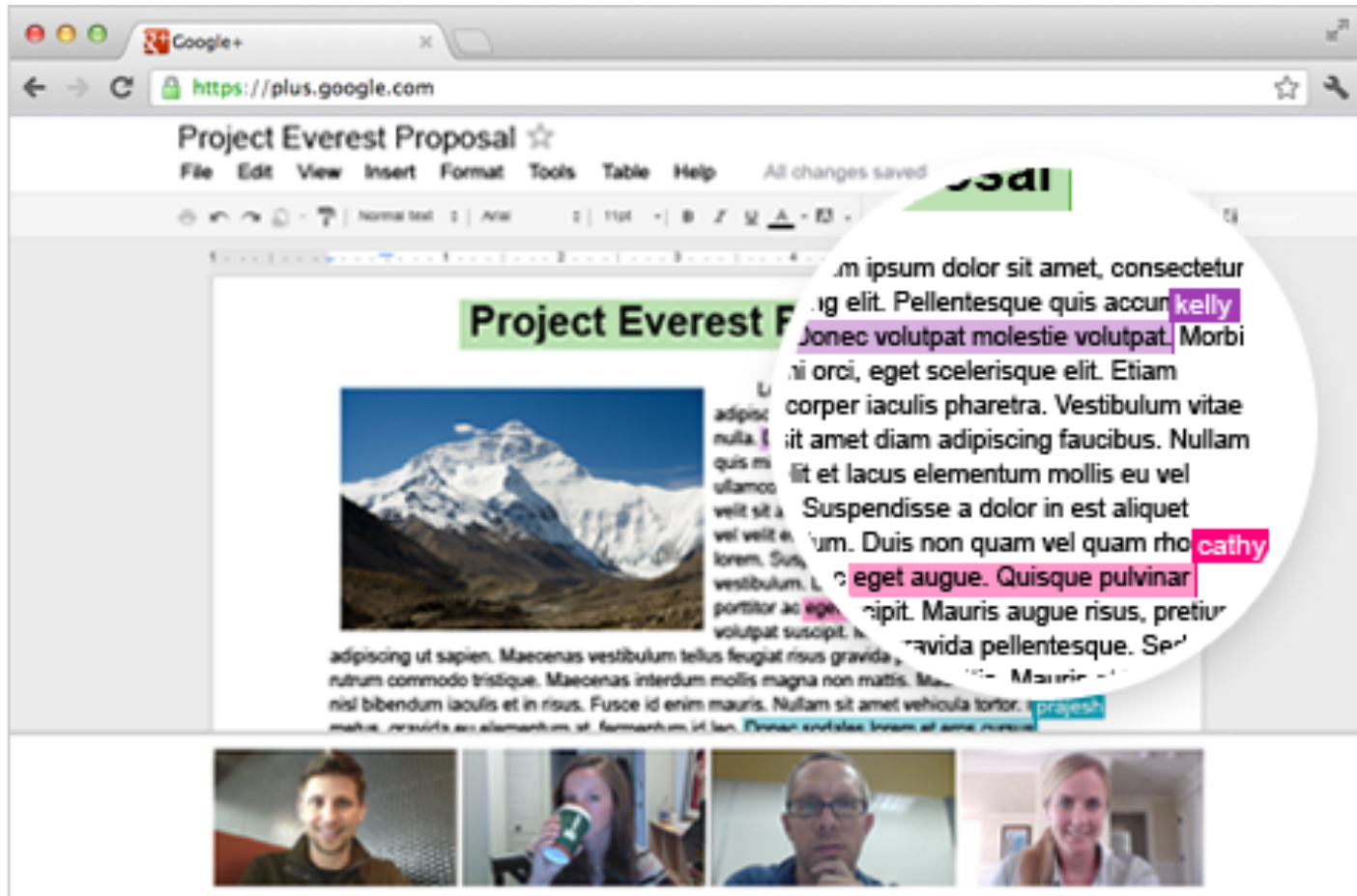
6. Invite a guest lecturer into your classroom

Invite an expert into your class to do a guest lecture through Video Chat. Or invite a grandparent who lives in another state to read to the class during story time.



7. Hold office hours and homework help

Let students know that you'll be available to help online at a certain time. Video conference with students who are absent.





Google Sites

8. Create a classroom website

Create a site for your class. Embed a class calendar, videos, and presentations.

**Mrs. Richau's
classroom**

Search this site

Home

- ▼ **Class Announcements**
 - Bring in your writing journal next week
 - Bus Service
 - Permission Slips Due
 - Spelling Bee
 - Spelling Words
- Class Reading List**
- Important Dates to Remember**
- School Forms**
- School Supplies**
- Suggested Reading List**
- ▼ **Weekly Spelling List**
 - Unit 12
 - Unit 13
 - Unit 14
- ▼ **Word of the Day!**
 - menagerie \muh-NAJ-uh-ree; -NAZH-, noun:
 - mien \MEEN\, noun:
 - perquisite \PUR-kwuh-zit\, noun:
 - subterfuge \SUB-tur-fyooj\, noun:
- Sitemap**



2007-08

Welcome to Mrs. Richau's English Class

Thank you for dropping by!

On this website, you'll have access to important information, like weekly spelling lists, classroom reading assignments, as well as upcoming activities.

I hope this site helps parents stay up-to-date on their child's learning. Please take a few minutes to acquaint yourself with your child's curriculum for this year. And feel free to email me if you have any questions.

Sincerely,
Mrs. Richau



word of the day!

menagerie \muh-NAJ-uh-ree; -NAZH-, noun:

1. A collection of wild or unusual animals, especially for exhibition.
2. An enclosure where wild or unusual animals are kept or exhibited.
3. A diverse or varied group.

Posted Feb 11, 2008 3:12 PM by Mandy Sladden

Showing posts 1 - 1 of 4. [View more »](#)

Class Announcements


Permission Slips Due Don't forget, we are off to the WOW museum on Friday, so all slips must be in before we head out. If you have lost the hard copy we ...
Posted Feb 19, 2008 12:14 PM by Mandy Sladden

Spelling Words The new spelling words are up on the spelling list page, please be ready for the test on Thursday
Posted Sep 22, 2009 8:32 AM by Mandy Sladden

Bring in your writing journal next week Starting next week, everyone will need to bring in a fresh notebook for our writing journal project. Everyone will be writing in their journals throughout the week and

9. Manage student e-portfolios

Use sites to create student ePortfolios. Showcase student work and pass it on from year to year.



[Home](#)[About Me](#)[contact-information](#)

Health Science
Home
Sitemap

Professional Documents
Resume
Personal Statement
Cover Letter

Health Science Internship
Internship Goals and Objectives
Internship Overview
Powerpoint
Research Presentation-Cerclage Study
Data Spreadsheet-Cerclage Study
Data Spreadsheet-Mesh Study
CITI Certification

Career Exposure
Career PowerPoint
Informational Interview

Undergraduate Experiences
Relevant Coursework
Semester at Sea
Volunteer Work

Certifications
Health Literacy

Home


Carter Ellis Williams

Welcome to my Health Science Portfolio!

This site will provide you my professional documents, internship experience, volunteer experience, and education information as well as some additional information so you can learn a little bit more about me. You can also access my CU ePortfolio to see more of my work.

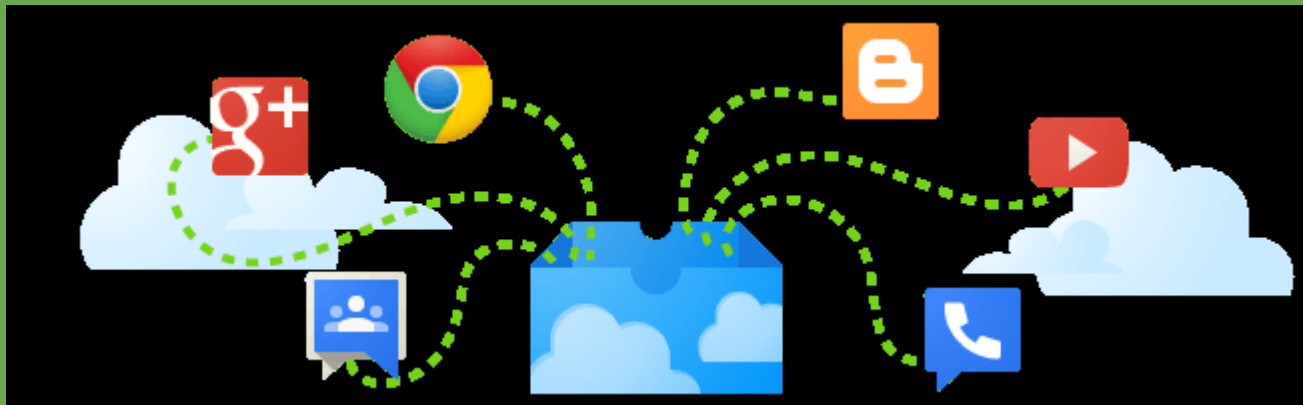
Please feel free to look around and contact me with further questions.

Thanks for stopping by!



In Cape Town, South Africa while studying abroad on Semester at Sea.


More



10. Use Moderator to extend classroom discussions

Have students reflect on their daily learning through Google Moderator. Students can read each other's reflections and vote up the responses that they like the best.

Google moderator

Summer Lesson #7 Discussion Question  Public on the web

Search

Home

You've contributed:
0 votes
0 ideas

Pick a topic:
Ideas

Sorted by popularity
Sorted by date
Sorted by what's hot

Export Series as CSV

Powered by
Google
Moderator
©2011 Google -
Terms of Service -
Privacy Policy -

Internal build summary:
@moderator_frontend/20121019-
161905-RC1:@35881545

Disable question translation

Ideas

Description

306 votes on 35 Ideas from 36 people

Please vote on this idea...

"Yes, like for example how people think the end of the world will happen in 2012. If we don't die from it then people in the future will think it was dumb of people to think that it was going to come true."


Edwin S., California [Post a response](#) [Share](#) ▼

Good idea?

☒ ☐

Skip

[Flag as inappropriate](#)

Popular ideas: [Presentation view](#) 

"Yes, like for example how people think the end of the world will happen in 2012. If we don't die from it then people in the future will think it was dumb of people to think that it was going to come true."

Edwin S., California [Post a response](#) [Share](#) ▼

☒ ☐

[Flag as inappropriate](#)

"I can't think of any thing that can be ridiculous"

julia.r, California [Post a response](#) [Share](#) ▼

☒ ☐

[Flag as inappropriate](#)

"I think we found out everything we know about our earth and there isn't anything else to know except for our ocean because we only discovered 15% of our oceans."

Christopher P., California [Post a response](#) [Share](#) ▼

☒ ☐

[Flag as inappropriate](#)

"i'll say yes because they might think that we are just making things up like that the moon was made by the earth"

richard, California [Post a response](#) [Share](#) ▼

☒ ☐

[Flag as inappropriate](#)

11. Run your classroom through Blogger

Use Blogger to structure and run your lessons. Students can access their "Do Now," independent practice, and exit slip through the blog entry.

history with sanders

KIPP: Google

THURSDAY, DECEMBER 1, 2011

Day 64: The Magna Carta (12/1/11)

Aim: The historians of 2017 will be able to make connections to the plight of medieval citizens frustrated with unfair demands and expectations.

[Submit Homework](#)

Task 1: What would you include if you could write your own school/classroom rules and expectations and everyone had to follow it? Which rules and expectations are you sick of?

Task 2: [Open up this link and wait for directions.](#)

Task 3: We will use this video to help us build more context.

Magna Carta

Share More info

A historical illustration depicting the signing of the Magna Carta. King John is seated on a throne, wearing a red robe with a white cross, surrounded by nobles and knights in medieval attire. They are gathered around a table covered with a red cloth, where documents are being signed. The scene is set in a large, open hall with a wooden roof.

Example: historywithsanders.blogspot.com

12. Organize and Deliver Curriculum

Web-based Learning Management Systems
that integrate with Google Apps



Quik-Start Class 5: Course Content

Pages Calendar Connect Assess

Module 0

Module 1

Module 2

Module 3

Module 4


Module 5


Module 0

The COURSE at a GLANCE

Three files that can be uploaded here are:

1. **The course syllabus** - Use format suggested/required by university
2. **The module overviews** - A complete look at individual modules from introduction to readings, assignments, activities, & assessments.
2. **The course overview chart** - a week-by-week look at the entire course by assignment, assignment type, due dates & point value


 Module Template

 Course Overview Template

COURSE ASSESSMENT TOOLS

Post the rubrics and checklists in two locations:

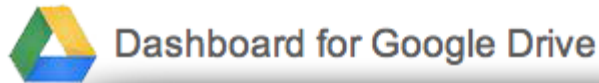
1. In Module 0 - when posted here, students can see at a glance how assignments/activities will be assessed.
2. In each of their respective modules

 Discussion Board (Forum) Rubric

**"Let's get started!"
ACTIVITIES**



13. Help Teachers Manage the Classroom



Richard Hirata		
Document	Modified by	Updated
showcase	-	1w 4d
Cat in a Hat	-	1w 4d
Reading List for Richard Hirata	T George	2m 3w

Kawakami Mai		
Document	Modified by	Updated
Zoo Homework	T George	1w 1d
Homework Sept 12th	-	1m 1w
Inventions	-	2m 1w

Jenny Hunt		
Document	Modified by	Updated
Reading List for J	-	-
Homework hando	-	-
Lissing up	-	-



Track All Sharing

Unshared	Public	External	All Docs
Richard Hirata			
Document	Modified by	Updated	
Homework handout	-	1d 15h	
Homework handout	-	2d 21h	
blank	-	3m 2w	

Michael Kim			
Document	Modified by	Updated	
Calculus	-	1d 1h	
Lenva's new work - Michael	-	3m 2w	



Sharing	Chromebook	Planning	Class Info
Docs Trash	Picasa	G+ Activity	G+ Profiles
Jenny Hunt			
Post	Replies	+1	Updated
Need to finish assignment tonight! No sleep...	2	1	1d 15h
Just watched The Zoo on TV. Scary scene...	0	0	1d 15h
Elephants are super smart animals!	0	1	1d 15h

Richard Hirata			
Post	Replies	+1	Updated

Sharing	Chromebook	Planning	Class Info
Docs Trash	Picasa	G+ Activity	G+ Profiles
Jenny Hunt			
	animal lover Wants to become a vet and work in a zoo Hapara Senior High Auckland, Miami 11-25		
Tagline			
Introduction			
Places I've lived			
Birthday			

Kawakami Mai			
Tagline			
Introduction			
Places I've lived			



Flipping the Classroom

14. 1000s of Lessons in Khan Academy

LEARN ▾

COACH

 KHANACADEMY

 Search for a video or topic



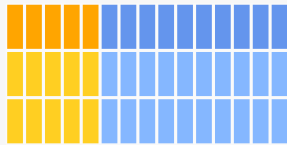
TOM ▾



Multiplication and division

Using the picture below as a guide, what number could replace \diamond ?

$$3 \times (5 + 10) = (3 \times \diamond) + (3 \times 10)$$



There are 3 rows, and each row has $5 + 10 = 15$ rectangles.

Answer

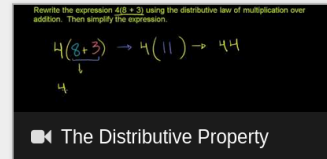
Acceptable formats

Check Answer

Need help?

I'd like a hint



Stuck? Watch a video.



[Show scratchpad](#)


15. Youtube for Schools

No Comments - Only Education Approved Content




EDU > **Primary & Secondary Education** > **Mathematics** > **All Categories**

1 2 3 4 5 6



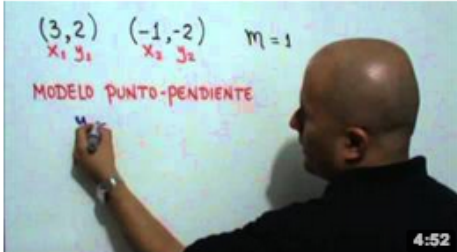
Zeno's Paradox - Numberphile
by numberphile
Dr James Grime is back and talking about tortoises. In m...

12:05



Squaring the Circle - Numberphile
by numberphile
Why squaring the circle - the old-fashioned way - was fou...

7:34




Ecuación general de una recta dados d...
by julio PROFE
Julio Ríos explica el siguiente ejercicio: Hallar la ecua...

4:52


< ● ● ● ● ● ● >

Algebra & Pre-Algebra »


1 of 3 < >




7:34




17:21




10:09



7:58



10:30




11:30

17. Learn to Code

Students (all of us) can learn coding skills free on the web!

[Codecademy](#)



01/06


What you'll be making

Before we ask you to write a bunch of code, we think it's helpful for you to see exactly what you'll be making in this project.


Check out the `index.html` file and the Result tab for an example—we've made our very own webpage.

INSTRUCTIONS


Hit Save & Submit Code to start building your own!


 **Stuck?** Get a hint!

YEAH SANDWICHES





I like eggs.
And ham!
But mostly sandwiches.

 View Full Screen

 Way to go!

Start Next Lesson



 Me

18. TED Ed

Teachers can use video content curated by TED, and create their own lessons called "Flips"

Atoms from A to easy!

LESSON CREATED BY **MELISSA PICKERING** USING **TED Ed**

VIDEO FROM **iCreatetoEducate** YOUTUBE CHANNEL

Let's Begin...

Electron orbitals. Diagonal rule. Dot diagrams. The periodic table. There's so much to know about the tiniest building blocks of life (atoms).



Watch

Think

Dig Deeper

Discuss

19. Typing Trainers

Engaging apps to teach and improve typing skills, important for Common Core testing and efficient communication.

Keys j & f

menu

redo

help

j	j		f	f		f	f	j	j		f	j	f	j		j	f	
f	f	j		f	j	j	f		j	f	j	j		f	f	j	j	
j	f	f		f	f	j	j		f	j	f	j		j	j	f	f	

SPEED (WPM): 4

Accuracy: 75%



Typing Club



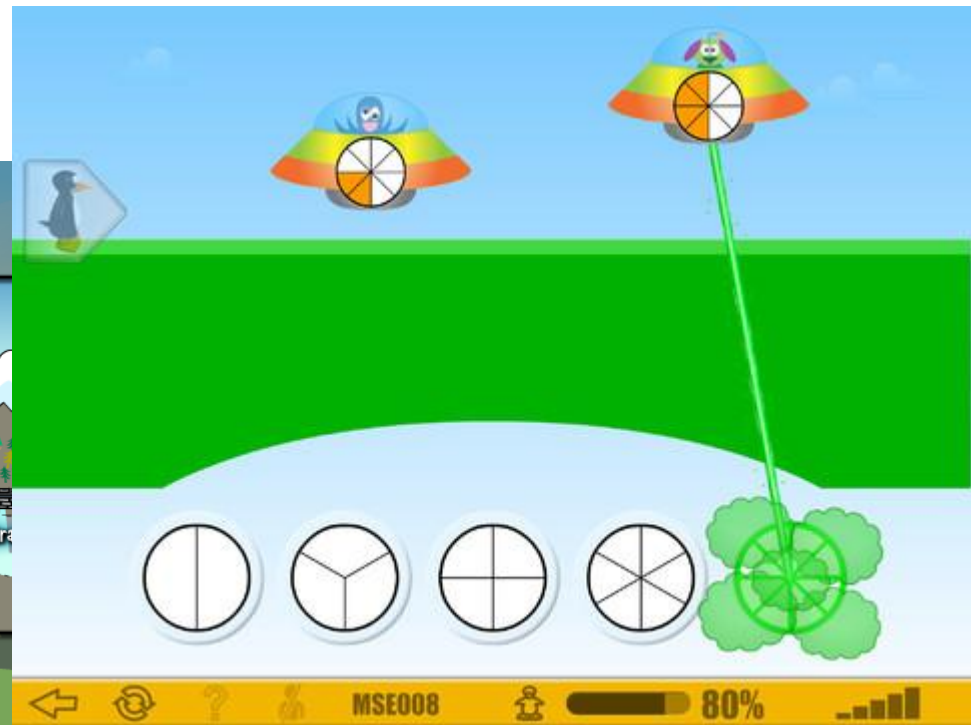
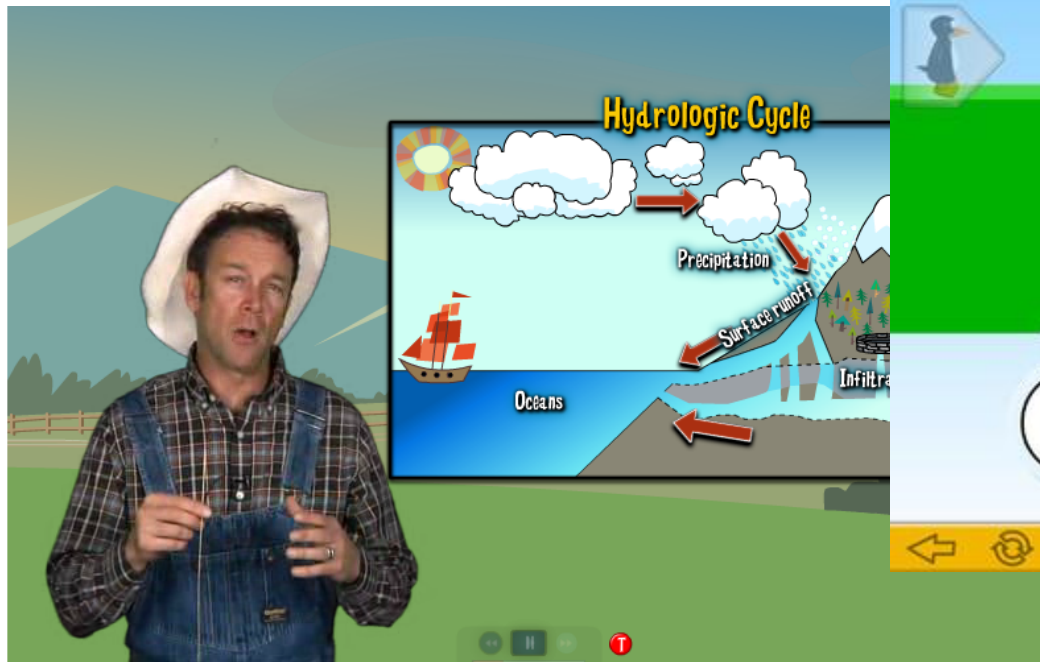
20. Adaptive Learning and Assessment

Allow students to learn at their own pace

ALEKS®



 **CompassLearning**®





Chrome Web Apps for Education

21. Create a "Glog"

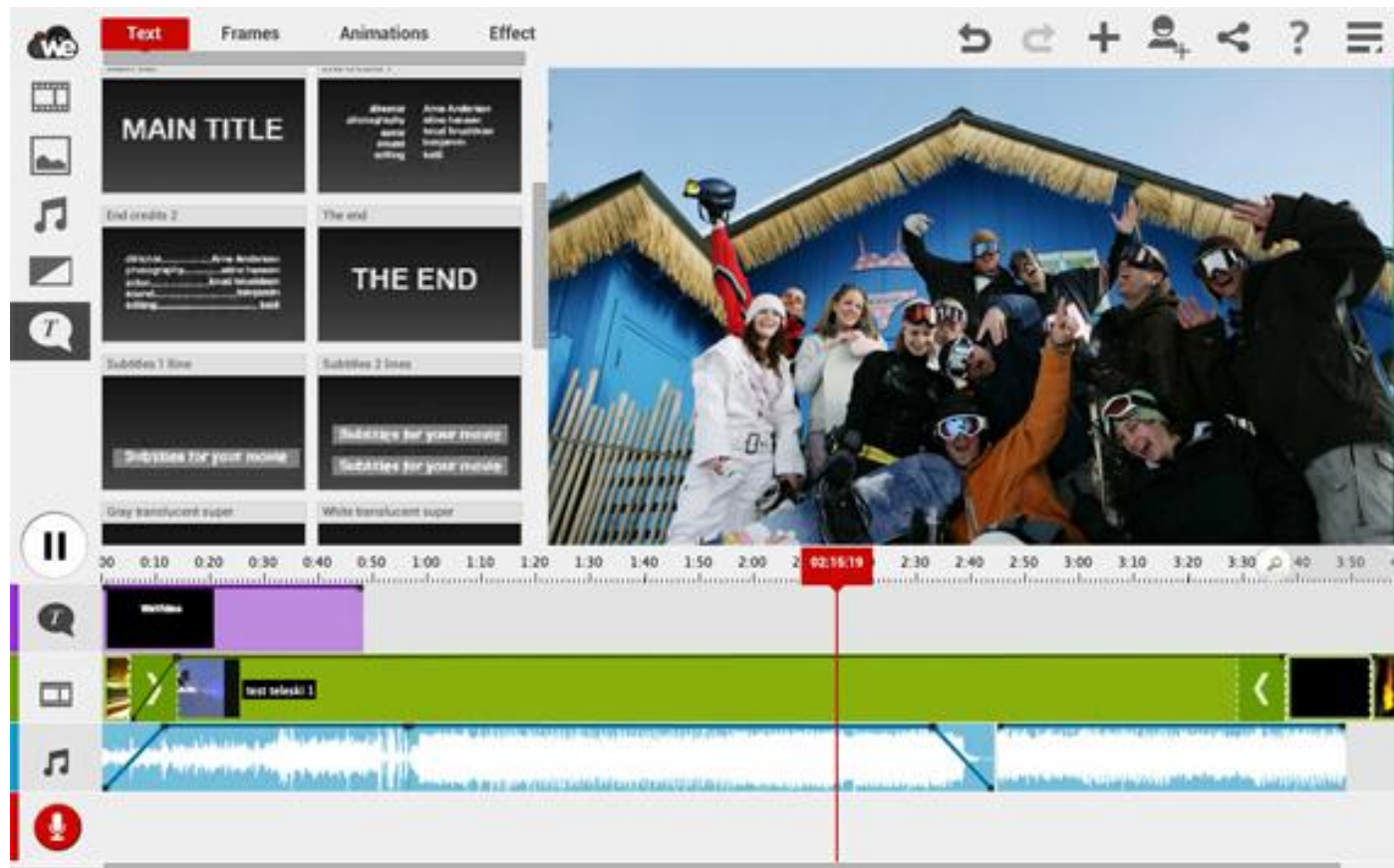
Expanding the blog into a platform for creative expression



22. Video Projects



Yes - you can shoot video, edit, and create inspiring video productions entirely on the web! (Collaboratively too)



23. Create Cartoon Animations

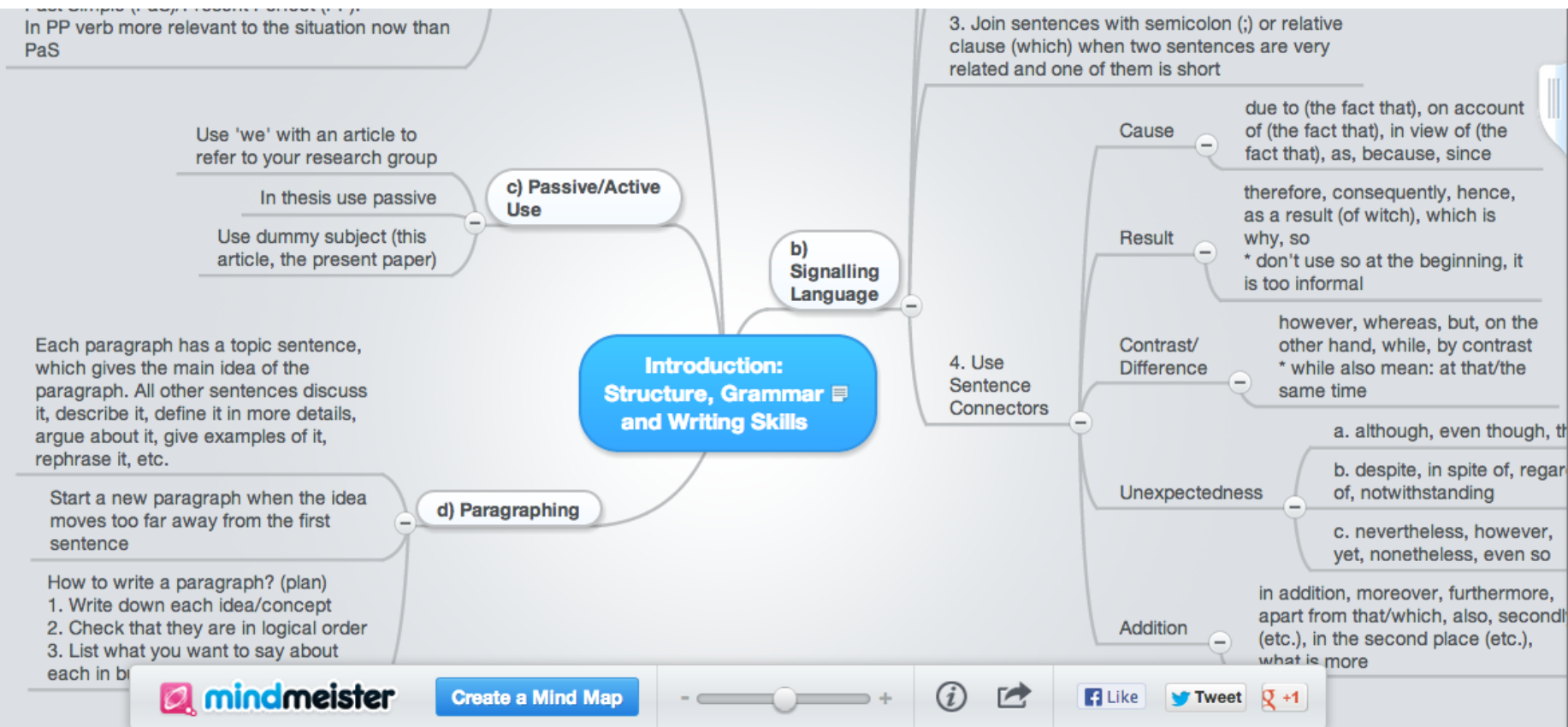
Allow students to demonstrate knowledge in fun, creative ways.



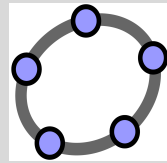
24. Mind Mapping



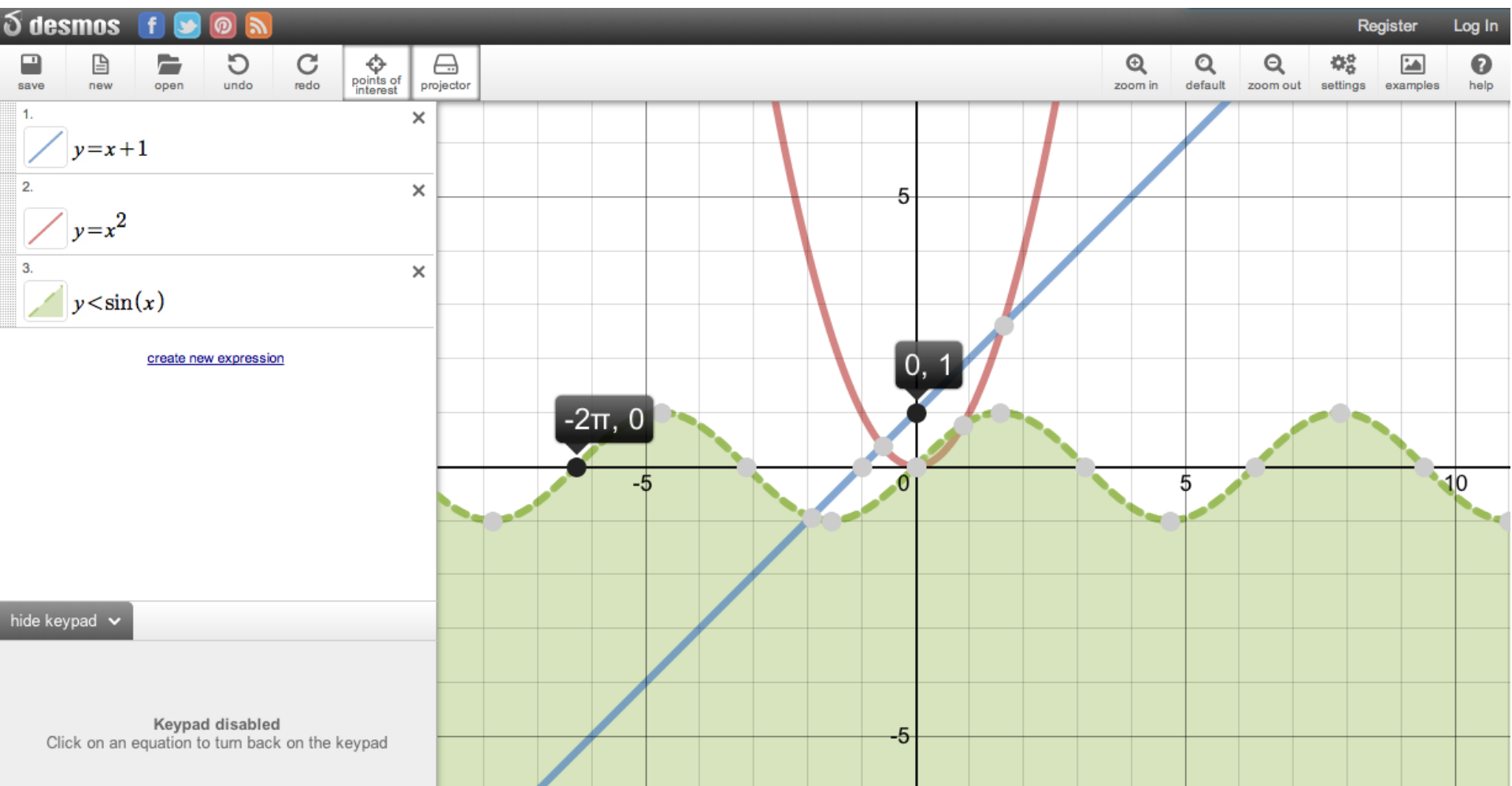
Teach students new ways to structure thought, brainstorm, construct ideas, and problem solve using interactive mind maps



25. Geometry and Graphing



With apps like Desmos and Geogebra, students can interact with dynamic graphing tools and lessons for all levels





Open Educational Resources

26. OER Commons



+ LEARNER OPTIONS

[Register Now!](#) | [Log In](#) | [Help](#)

[Home](#) / [Browse All](#) / [My OER](#) / [Groups](#) / [Contribute](#)

pythagorean theorem



[Use Advanced Search](#) | [Discover New Resources](#)

Browse by Topic

[Education](#) / [Arts](#) / [Humanities](#) / [Social Sciences](#) / [Natural Sciences](#) / [Applied Sciences & Technology](#) / [Mathematics & Statistics](#)



New on OER
Commons



Social / Emotional
Learning



Common Core



Primary Sources



Teachers as Makers




Flexible Learning




Game-based
Learning

27. CK-12


With services like CK-12 it's easy for teachers to assemble their own textbooks, with rich content aligned to Common Core.

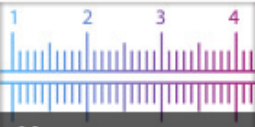


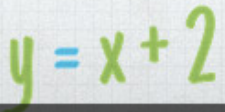
[Blog](#) [Learn](#) [More Resources](#) [I am an Instructor](#) [About](#) [Sign In](#) [Join CK-12](#)

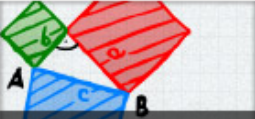



Mathematics



Arithmetic


Measurement



Algebra



Geometry

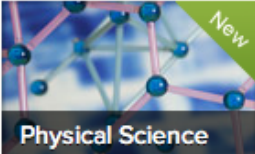

Probability



Statistics


Science



Life Science


Biology



Physical Science



Chemistry

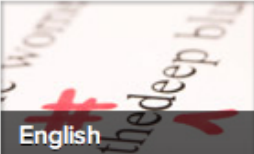

Earth Science



Physics


More



Engineering


Technology


English


Astronomy


History


Economics



Assessments

Let's try it together

Who will win this year's World Series?

Submit your answers in a form:

<http://goo.gl/Pz4ET>

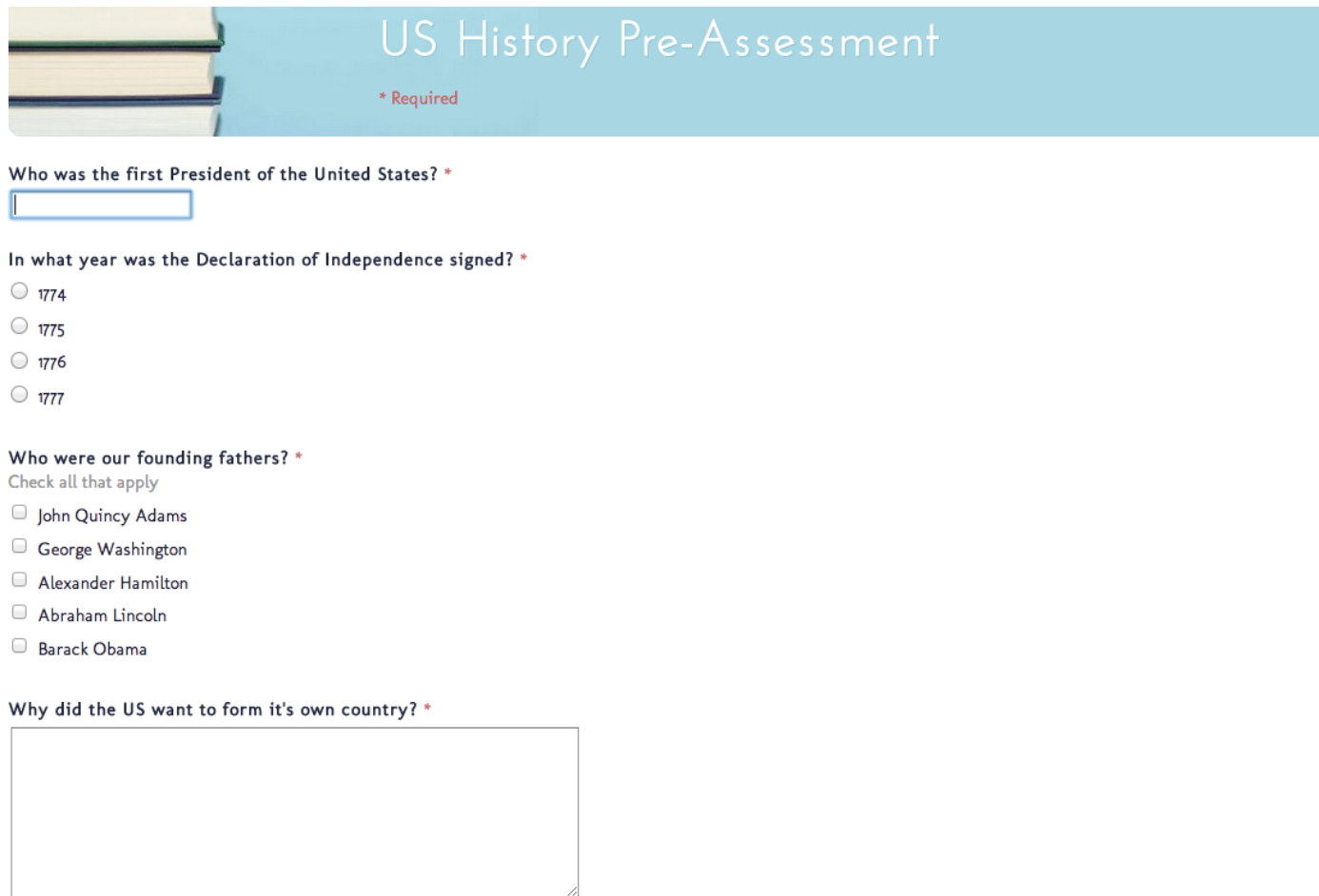
See the results:

<http://goo.gl/ELXC1>



28. Administer assessments

Use Google Forms to give your students a pre-assessment at the beginning of class. Modify your instruction based on the results. Then give students an "exit ticket" at the end of class to see what they learned.



US History Pre-Assessment

* Required

Who was the first President of the United States? *

In what year was the Declaration of Independence signed? *

☐ 1774

☐ 1775

☐ 1776

☐ 1777

Who were our founding fathers? *

Check all that apply

☐ John Quincy Adams

☐ George Washington

☐ Alexander Hamilton

☐ Abraham Lincoln

☐ Barack Obama

Why did the US want to form it's own country? *

29. Automatically grade forms with Flubaroo

Flubaroo is an Apps Script that allows you to automatically grade assessments that have been submitted using a Google Form.

www.flubaroo.com



30. Securely administer student assessments

With the single app kiosk mode, easily set up Chromebooks to deliver secure online assessments -- including tests you create yourself or from the Smarter Balanced and PARCC consortia. Disable features like internet browsing and USB ports so that students can only access the testing environment.



Approved by:



Additional Resources

More information on Google in Education

Google Apps for Education Online Training Center

<http://edutraining.googleapps.com/Training-Home>

Google for Education +

<https://plus.sandbox.google.com/u/0/+GoogleforEducation/posts>

Chromebooks EDU + Community

<http://goo.gl/Glfgl>

Education on Air

<https://sites.google.com/site/eduonair/>

Recorded Webinars

<http://www.google.com/enterprise/apps/education/resources/recorded-webinars.html>