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

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   Resolve
3:33 AM Today
Do we have 3 class periods to devote to this lesson?
Edit Delete

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

Reply to this comment...

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.

3. Collect, share and analyze data

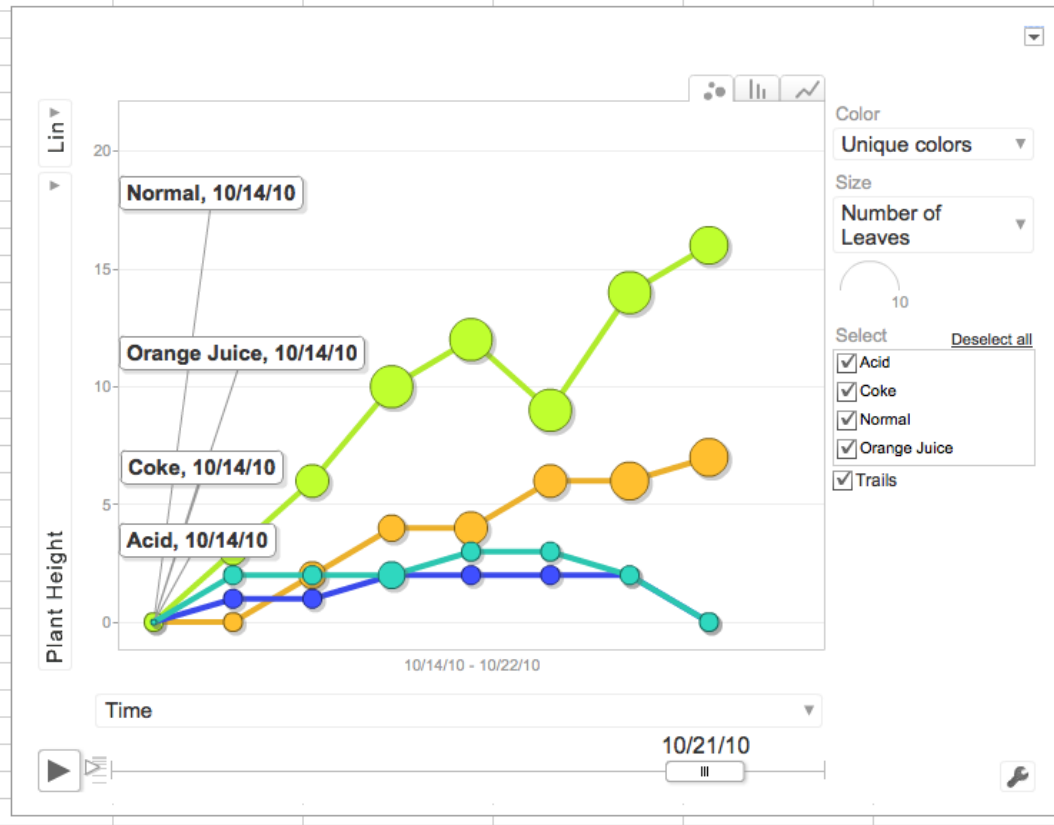Collect data in a sheet, then use charts and gadgets - like the motion chart - to graph and analyze the data.

4. Research Tools in Presentations

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

5. Create amazing presentations

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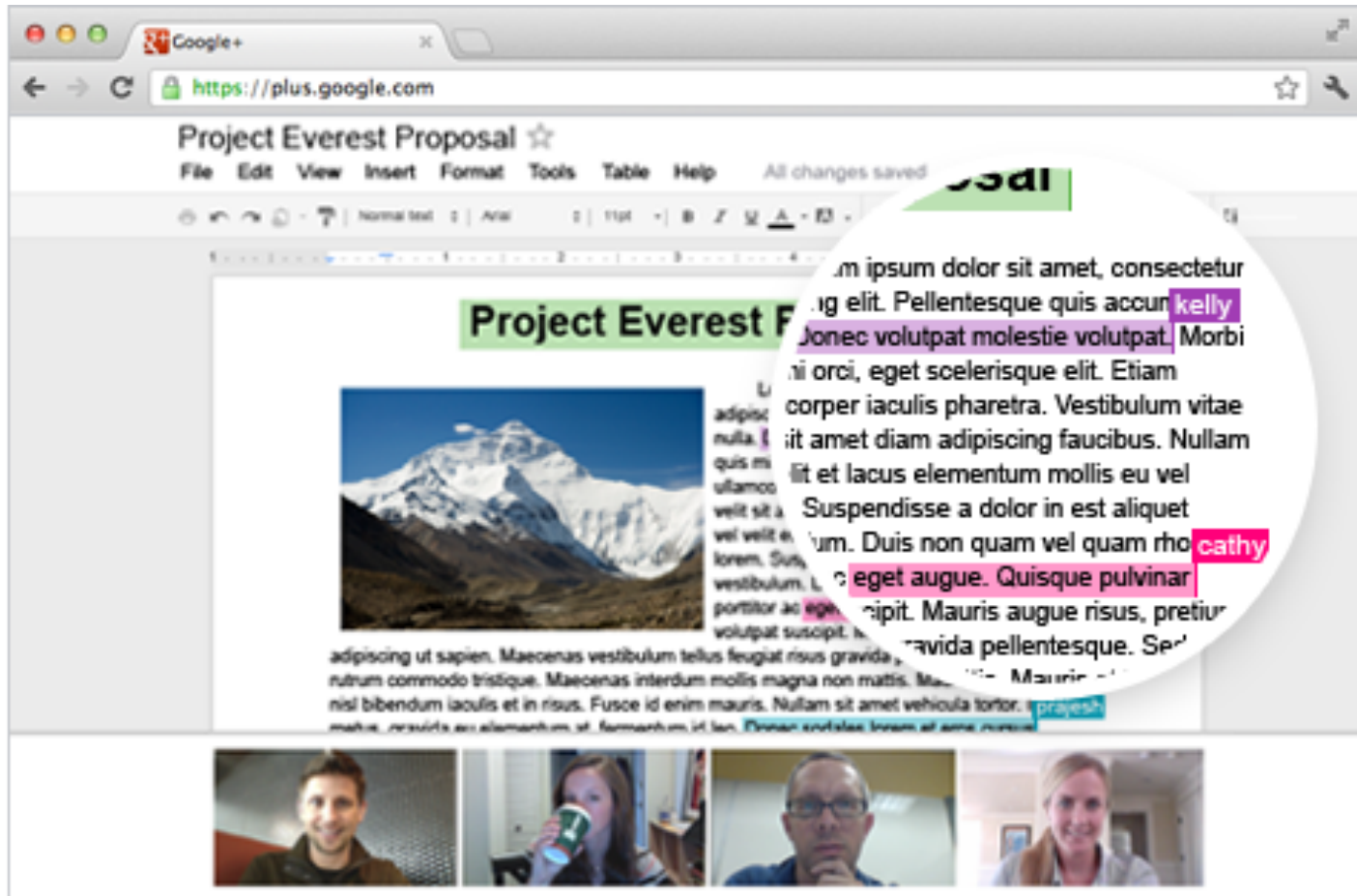
Google+

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.
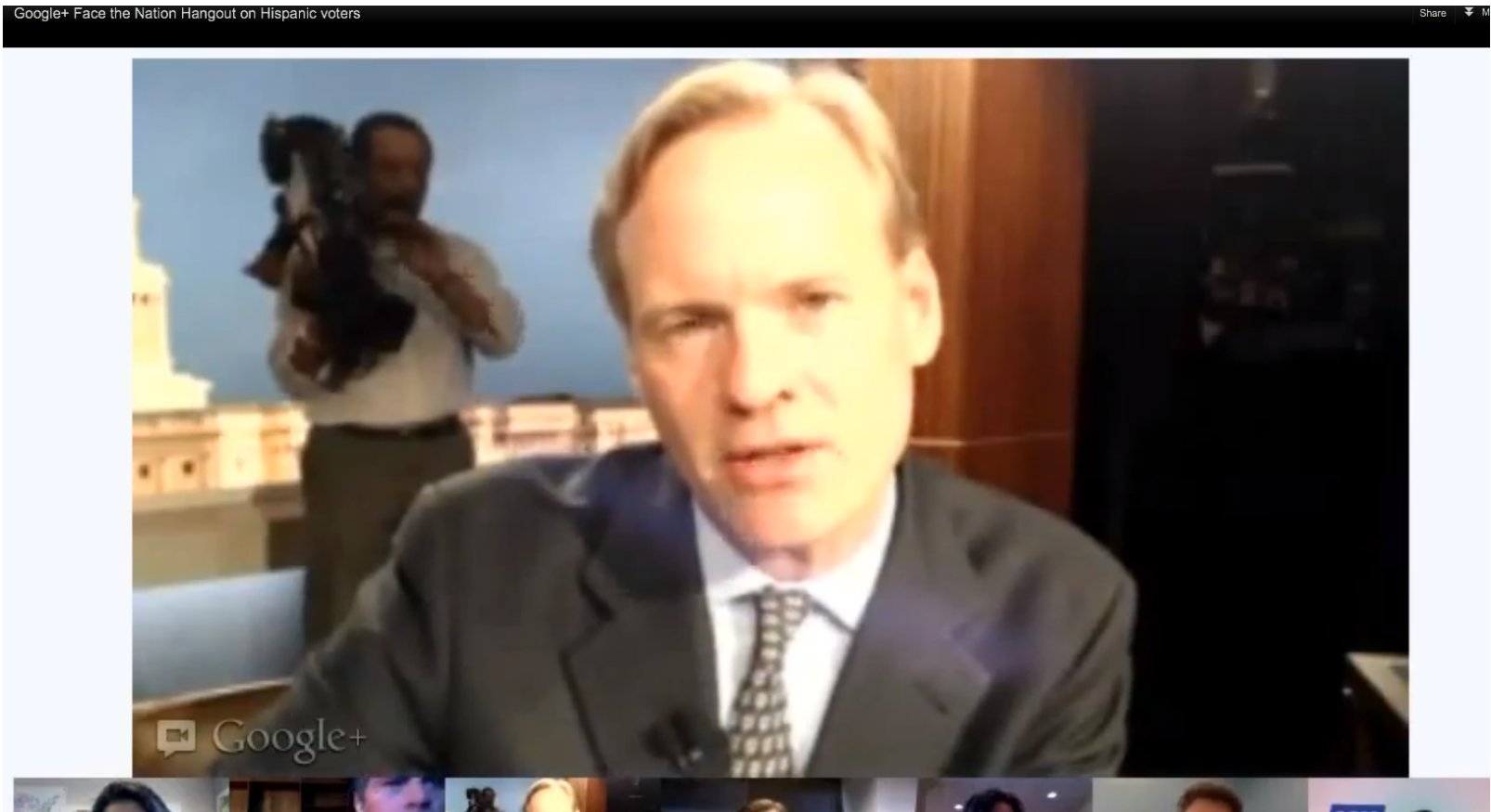
7. Hold office hours and homework help

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

Case Study: http://goo.gl/yhj8p

🗔 **Google Sites**

8. Create a classroom website

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

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9. Manage student e-portfolios

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

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.

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.

Example:

12. Organize and Deliver Curriculum

Web-based Learning Management Systems
that integrate with Google Apps

haiku
Learning Management System

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

Flipping the Classroom

14. 1000s of Lessons in Khan Academy

Multiplication and division

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

$$3 \times (5 + 10) = (3 \times \diamond) + (3 \times 10)$$
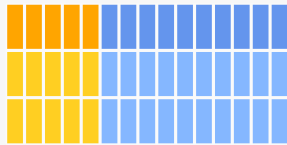
There are 3 rows, and each row has $5 + 10 = 15$ rectangles.

Answer   Acceptable formats

Check Answer

Need help?

I'd like a hint

Stuck? Watch a video.

Rewrite the expression 4(8 + 3) using the distributive law of multiplication over addition. Then simplify the expression.

$4(8+3) \rightarrow 4(11) \rightarrow 44$

4

📹 The Distributive Property

Show scratchpad

15. Youtube for Schools

No Comments - Only Education Approved Content

17. Learn to Code

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

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

Allow students to learn at their own pace
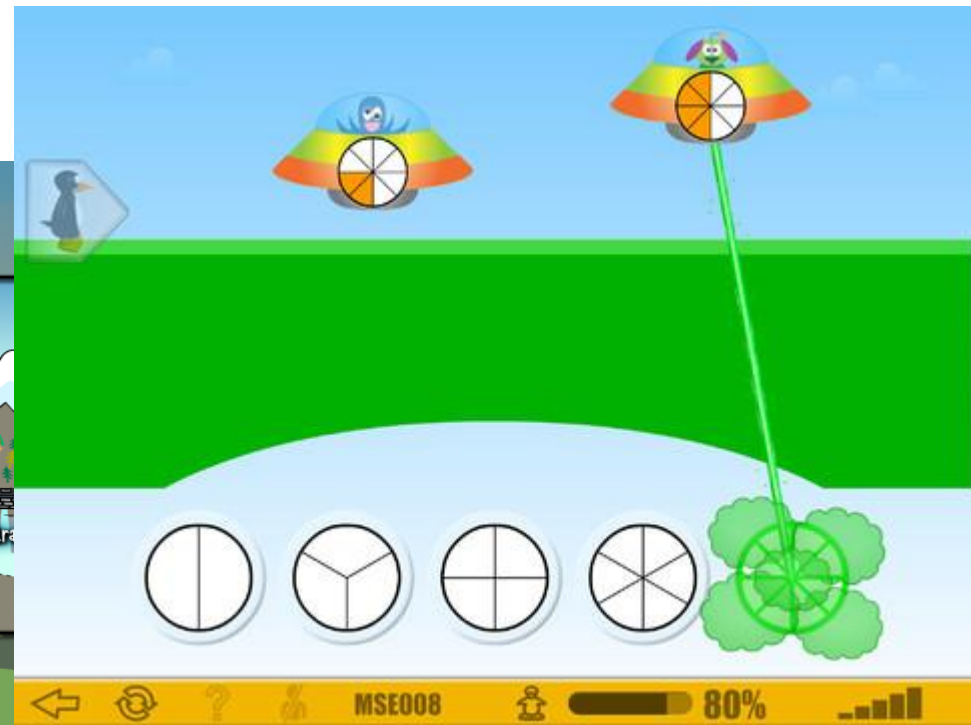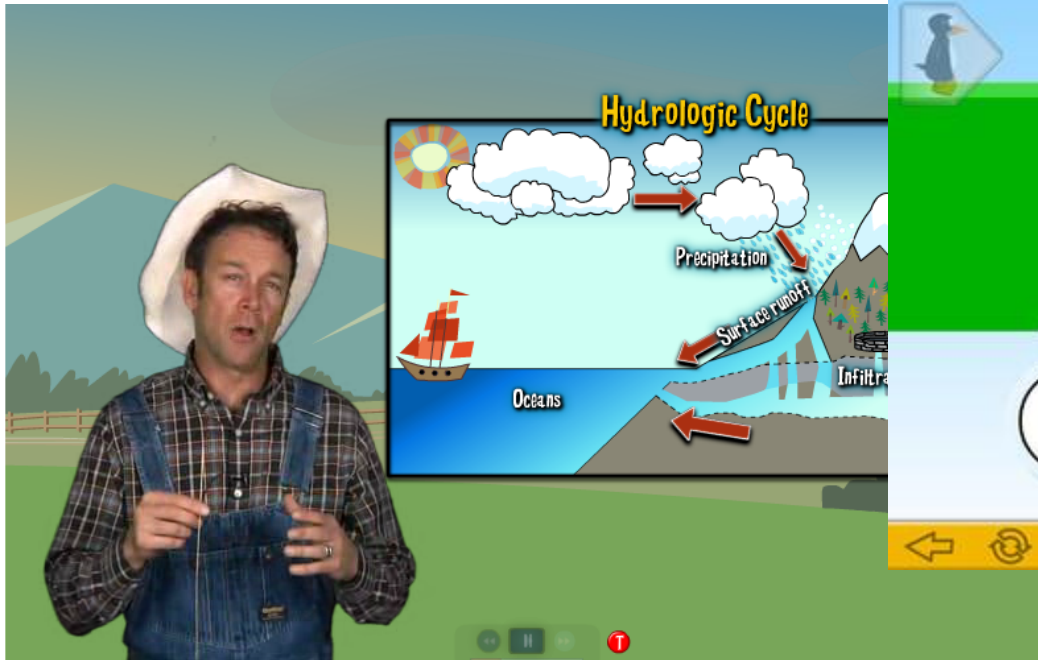
Chrome Web Apps for Education

21. Create a "Glog"

Expanding the blog into a platform for creative expression

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

Go! Animate
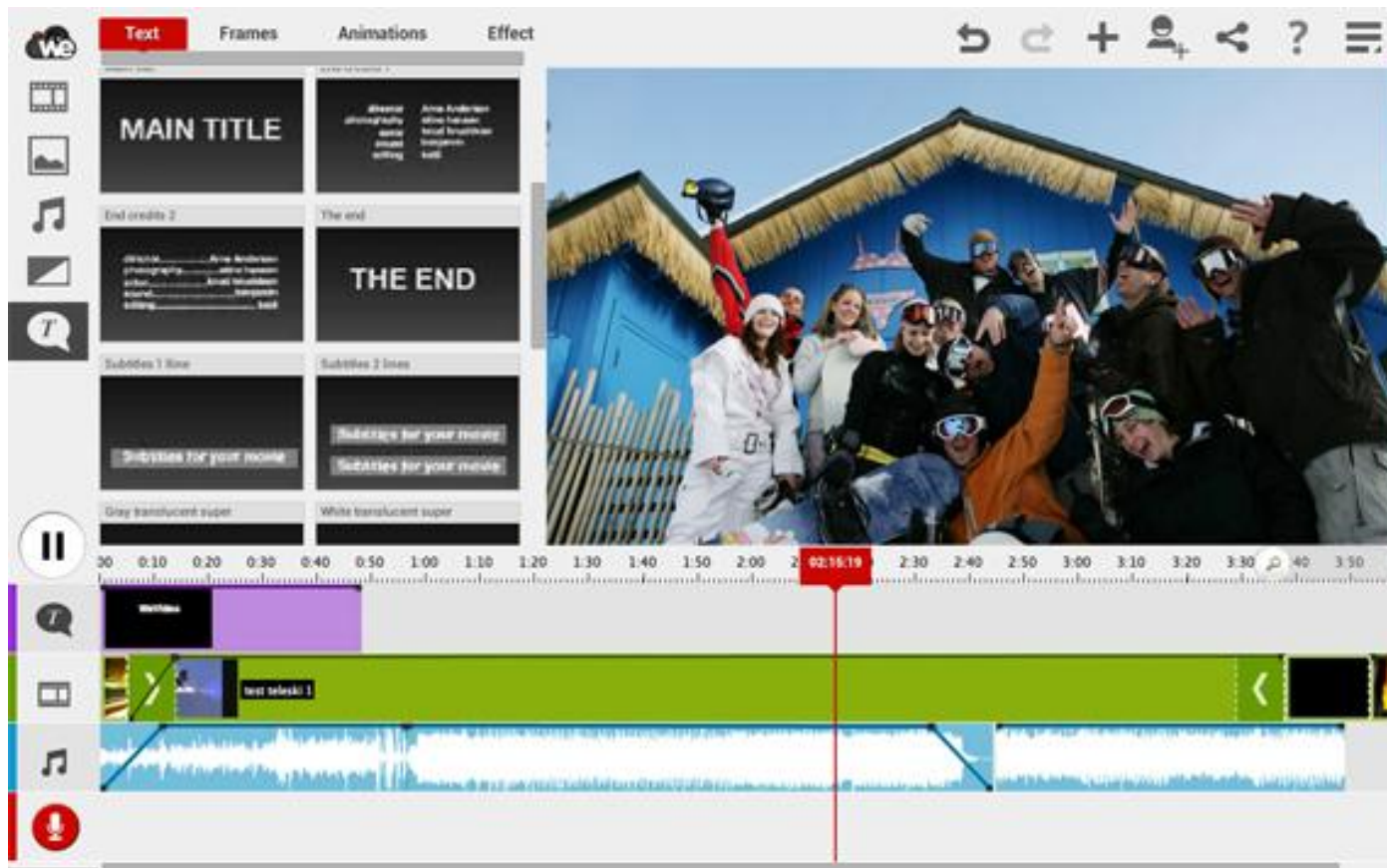
Allow students to demonstrate knowledge in fun, creative ways.

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

25. Geometry and Graphing
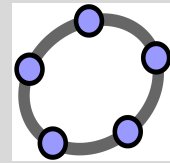
With apps like Desmos and Geogebra, students can interact with dynamic graphing tools and lessons for all levels
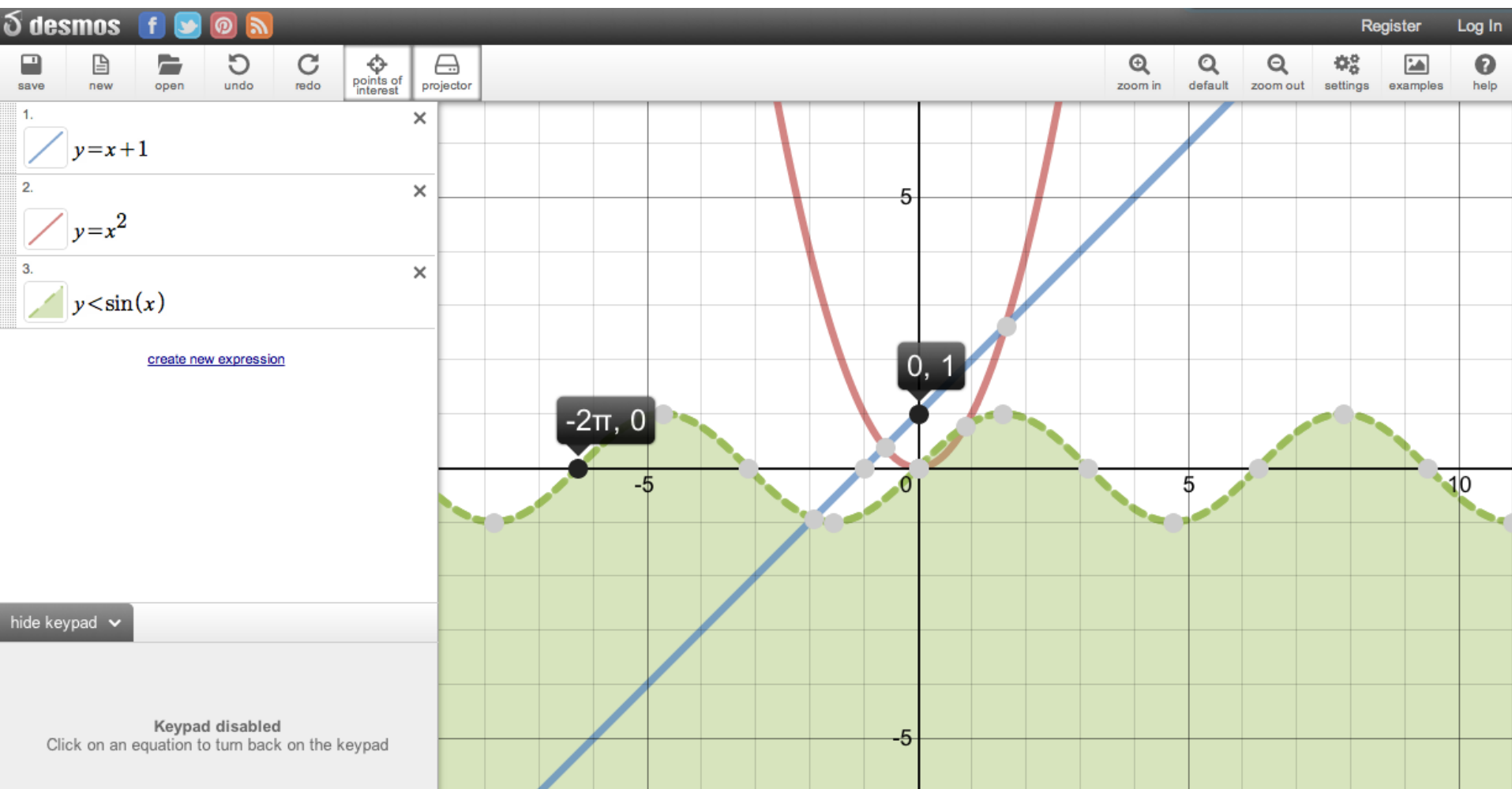
Open Educational Resources

26. OER Commons

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.

Assessments

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. Smarter Balanced Assessments

Chromebooks are approved for SBAC Assessments. Students simply login with an assigned account, no need to install a special browser!

Additional Resources

More information on Google in Education

Google Apps for Education Online Training Center
http://edutraining.googleapps.com/Training-Home

Google in Education +
https://plus.google.com/u/1/+GoogleinEducation/posts

Chromebooks EDU + Community
http://goo.gl/GIfgI

Education on Air
https://sites.google.com/site/eduonair/

Recorded Webinars
http://www.google.com/enterprise/apps/education/resources/recorded-webinars.html