Google WEB TOOLS For Teaching & Learning
60%
Prepare students for jobs that don’t yet exist
Connecting and discovering in ways we never thought possible
Learning for everyone, anywhere
“Going Google means adopting a culture that extends beyond the classroom walls: it’s about openness, curiosity, and working together.”

– Jim Sill
Educator & Trainer
Visalia, California

Empowerment
Discover a world of infinite resources

Choice
Use the right device, anytime anywhere

Teamwork
Work together in real-time

Scalability
Affordable and easy to manage
Access to digital content empowers students and gives teachers the tools for individualized learning
Seamless and secure access across multiple devices gives students, teachers and administrators choice
Students and teachers use Google Apps for writing across multiple devices, so they can work together anytime, anywhere.
Manage 4 devices or 40,000 all from a web browser

Scalability
Classrooms have not changed much in 70 years

Past

Research technology

Present

Classrooms
Open technology can help transform education

Platform

Devices

Content
Google Apps core services

Drive
Collaborate as you create

Calendar
Share schedules and calendars instantly

GMail
Keep everything and find it fast with search

Groups
Create and work in teams easily

Talk
IM and video chat as easy as email

Sites
Make and manage your own sites
Admin console for Google Apps

Centralized cloud-based management
Create & manage users
Create organizational units
Enable/disable certain Google Apps & adjust settings
Chromebooks for Education

Get to lessons faster
Same experience everywhere
Easy to share
Safe and secure
Benefits of Chromebooks for Education

**Easy set-up and management**
- Manage 10 or 10,000 Chromebooks with ease
- Web-based management console makes it easy for schools to configure and manage a set of Chromebooks

**Classroom impact**
- Battery that lasts the school day
- Devices boot up in 8 seconds
- Access to a world of information
- Google Apps allow students to collaborate

**Affordability**
- Devices starting at just $279
- Low cost of management at only $30
We offer a range of affordable Chromebooks

- Samsung Chromebook
- Acer C7
- Lenovo ThinkPad
- HP Chromebook 11
- HP Pavilion
The Google admin console
Scalable cloud-based management of Chromebooks

Security built in
Forever fresh
Proxy filters
Disable guest access
Kiosk mode
PARCC and smarter balance compliant
Content: the Chrome Web Store
Tablets with Google Play for Education

Designed for learning, made for the classroom

It’s never been easier to...

- Deploy
- Discover
- Deliver...

Teaching & learning resources
Benefits of tablets with Google Play for Education

**Deployment**
- With devices starting at $229, 1:1 is affordable
- With NFC configuration, simply touch tablet to tablet to set up a classroom of devices in minutes
- Students sign in with Google Apps for Education logins

**Discovery**
- In Google Play for Education browse for apps approved for teachers by teachers or search 1 million apps in the full catalogue
- Filter by grade, subject, or education standard (incl. Common Core)
- Also discover videos from approved education YouTube channels

**Delivery**
- Purchase with POs (no credit cards required)
- Deploy apps to 1 student, 1 class, or 1 district via the cloud with just a few clicks
Your choice of affordable tablets, with access to Google Play for Education

Pick the approved tablet that’s right for your students

- Nexus 7 (7 inches, $259)
- ASUS Transformer Pad (10.1 inches, coming soon)
- Samsung Galaxy Tab for Education (10.1 inches, coming soon)
- HP Slate 8 Pro (8 inches, coming soon)

Then get access to Google Play for Education
Google Play for Education

Content that inspires

Discover a range of content in Google Play for Education

Identify apps approved for teachers by teachers

Browse EDU-approved apps by grade, subject, and standard

Use POs where payment is required, and deploy apps instantly
Filter to find EDU-approved apps by subject, grade, and standard

Search with keywords
Grade level, free or paid
Select the subject
Common core standards
Identify educator approved apps by the yellow badges

**EDU** signifies that this app was approved by educators who reviewed app quality.

**IN APP FREE** means that the app does not allow in-app purchases.

**AD FREE** shows that the app does not contain ads.
Purchase a set of apps with a PO and deploy to tablets instantly

Update the quantity…

…and the price updates
“75 apps for your class” helps you find top tools for students

Visit goo.gl/pG9DVT to access it
Milpitas Unified School District
Introducing Milpitas Unified School District

Chin Song

• Director of Technology
• Develops and implements strategies that make learning efficient, effective, and engaging for students
• Brings successful education, non-profit, and corporate business experience
Milpitas Unified School District Overview

Urban school district ~1 hour south of San Francisco, CA

Unified = 2HS, 2 MS, 9ES, AE, CF, DO

26% ELL, 41% low SES

10,000+ students
700+ staff (450 teachers)
20th century

sequential & fixed use of time

13 years

5th grade standards
180 days
6+ hours / day

time is constant & learning is variable

21st century

competency-based learning
mastery learning

180 d
150 d
220 d

blended learning support

learning is constant & time is variable
FLOW of information

20th century

information, skills, & knowledge

→

teacher

→

student

21st century

information, skills, & knowledge

→

teacher

→

student

more student-centered learning
shift in control of access to info.
shift in who controls time
Learning Design Principles in MUSD

• 4 C's
  o communication, collaboration, critical thinking, creativity

• shift towards student-centered learning

• seamless use of technology

• flexible use of time, space, grouping of students

• use of data to inform instruction
Requires New Ways of Thinking

"If you want to teach people a new way of thinking, don't bother trying to teach them. Instead, give them a tool, the use of which will lead to new ways of thinking"

- Buckminster Fuller
PPDSH Design Model

people | procedures | data | software | hardware
PPDSH Design Model

people | procedures | data | software | hardware

Google Apps for Education

Chromebooks & Chromebox
reduce friction
No Patches
Streaming Updates
Instant Replacement
defect rate < 1%
1 : any paradigm
Timeline

• November 2011
  o Decision to Switch to Google Apps

• April 2012
  o Switch : Google Apps + test Chromebook

• July - Aug 2012
  o District wide wireless

• August 2012
  o 1000 Chromebooks
Tips & Strategies
Infrastructure

- Device Density
- Internet Bandwidth
- Cross Campus SSID

Security

- Security | Meraki
- 1:1 take home
- Policy on Google Dashboard

Google Apps

- Integration Importance
- Account Authentication
- Techs Have Our Trust

Experience

- Human Centered
- Common Sense Driven
- Available (100%) / Reliable
- Focus Collaborative Tools
Design The Experience

- Instructional software alignment
- Modern computing/making lab
- 1: any vs. 1:1
- Carts / Charging
- Planned obsolescence | 3+2
- Zero, web, & in person training
Flexible Learning
Chromebook 1:1 8 months

220
1:1 devices @ MHS

53+ M
pages scanned (M = Million)

240k+
pages per student
1100+ "pages" per day
Examples in schools

- Learning Labs
- In the Classroom

1:1

ANYTIME ANYWHERE

?
Examples in schools

Quick Write
3rd-6th Grades
Examples in schools

Group Projects

Leader: Lenor Lam
Writer: Joan Cabor
Checker: Amanda Vien
Reporter: Joseph Wong

Scenario: 看表演以後，他們在親戚的家。

Story Link: http://goo.gl/6qCKt
Word Count: 320 words

Collaborative Story
10th Grade
Examples in schools

**Room 207 Zoo**

**African Spurred Tortoise**

Do you know about african spurred tortoise? I do. First, they can grow over 30 inches. Second, females grow only about 20 inches, males only weighs 125-150 pounds. Third, these tortoises live in the African desert which don't get much rainfall. Tortoises shells have rings. The African Spurred Tortoise has spurs on their back legs. Obviously, they look cool!

Resources

- [http://www.animalcorner.co.uk/wildlife/Africaspurrtort.html](http://www.animalcorner.co.uk/wildlife/Africaspurrtort.html)

**Zoo Animal Research**

1st and 2nd Grade
Examples in schools

Assess and Evaluate

<table>
<thead>
<tr>
<th>Weller Student Survey</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feedback from 3rd - 6th grade students regarding Weller's Blended Learning program 2012-2013</td>
</tr>
</tbody>
</table>

How do you feel about the new blended learning rotation model at Weller this year?
- I like rotating to different classes, including the Learning Lab.
- I do not like rotating to different classes.

How do you feel about having a different teacher for each subject this year?
- I like having a different teacher for each subject this year.
- I did not like having a different teacher for each subject.

How do you feel about homework this year?
Check all that apply.
- Homework is not challenging.
- I miss doing homework packets each week.
- I enjoy doing my homework on the Internet.
- I enjoy doing monthly book reports or book projects.
- I wish I had more homework.
Examples in schools

Present

Finding My Errors
With Kolby Vidal and Keana Berena
The Problem We Chose
To Find The Error:
(4 + 5) x 3^2 - 5 = 36
The Error: The student subtracted first instead of multiplying.

Wrong Way:
(4 + 5) x 3^2 - 5 =
9 x 3^2 - 5 =
9 x 9 - 5 =
9 x 4 = 36
81 - 5 = 76

Right Way:
(4 + 5) x 3^2 - 5 =
9 x 3^2 - 5 =
9 x 9 - 5 =
9 x 4 = 36
81 - 5 = 76

Steps:
Step 1: Do parentheses first. (4 + 5 = 9)
Step 2: Do the exponent. 3^2 = 9
Step 3: Multiply. 9 x 9 = 81
Step 4: Subtract. 81 - 5 = 76

Just Remember... P.E.M.D.A.S.
Pegacorns eat many doughnuts after sunset

Credits:
-Kolby for figuring out the math
-Keana for decorations
-Background Image: http://www.blackberry3.com/
-Wendy Esquivel for WebQuest

Find My Error
6th Grade
Examples in schools

**WHAT OUR STUDENTS DO**

**Create**

Name: Augie  
Date: 1/4/12

Bow and Arrow  

iPhone 4s

Technology is anything that changes the world to help make life easier. It can come to Bow and Arrows to Spear to Cell Phone. It helps make the world a lot easier.

**What is Technology?  
5th Grade**
Examples in schools

Collect and Reflect

Welcome to my learning portfolio!!!

My School's Mission:
Mission
To create and maintain a learning environment that ensures all members of the school community are challenged to reach high levels of achievement, as verified by measurable objectives, and to provide the academic skills and emotional awareness required for success in a changing world.

Vision
My Learning Goals For This Year:
1. I want to get straight A's this year
2. I want to improve in sports and track.
3. I want to know more than I knew when I first came to Randall!

What is a learning portfolio?
A learning portfolio is an online site where you can post ideas and comments about a subject. In this case, school. You can post what happened in school or in class today as well, so that others can know what you did at school and what type of homework you have.

Go to this link to learn about some things we did this year: Essay

E-Portfolios
5th-6th Grade
Examples in schools

Apps that "Get It" and Engage our Students
Examples in schools

A Sustainable Impact

Students
- Student Engagement
- Ownership of Work
- Customized Learning Opportunities
- Digital Footprint
- 21st Century Ready

Educators
- Common Core Alignment
- Smarter Balanced Ready
- Accountability
- Instant Feedback & Assessment
- Organization & Management
Segue Title

Subtitle
Title and content slide

Subtitle

Try to keep the amount of bullets on a slide to a minimum
# Color palette

<table>
<thead>
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<th>HEX</th>
<th>RGB</th>
<th>HEX</th>
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<tr>
<td>e9e9e9</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>
Color palette

This menu can be accessed from your font menu, Fill and Line color menu, Background menu etc...

The template's theme colors. From left to right:

- Dark Gray 1: #222222
- White: #FFFFFF
- Dark Gray 2: #464646 (Used for title text)
- Light Gray 1: #6e6e6e (Used for body text)
- Blue: #3369e8
- Yellow: #eeb211
- Green: #009925
- Red: #d50f25
- Light Gray 2: #939393 (Also used for body text)
- Light Gray 3: #b1b1b1