Milpitas Unified School District
Goes Google with Chromebooks and Google Apps

June 17, 2014

Angela Mecca, Google for Education
Chin Song, Director of Technology, Milpitas Unified School District
60%
Prepare students for jobs that don’t yet exist
Connecting and discovering in ways we never thought possible
Open technology to improve learning for everyone, everywhere
“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 2

Toshiba Chromebook 13

Dell Chromebook 11

Acer Chromebook 720

HP Chromebook 14
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)
- Samsung Galaxy Tab for Education (10.1 inches)
- ASUS Transformer Pad (10.1 inches)
- HP Slate 8 Pro (8 inches)

Then get access to Google Play for Education
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
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

21st century

- competency-based learning
- mastery learning

- 5th grade standards
  - 180 days
  - 150 days
  - 220 days

- blended learning support

- learning is constant & time is variable

- time is constant & learning is variable

- 13 years
- 5th grade
- 180 days
- 6+ hours / day

Google for Education
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
  - Decision to Switch to Google Apps

- April 2012
  - Switch: Google Apps + test Chromebook

- July - Aug 2012
  - District wide wireless

- August 2012
  - 1000 Chromebooks
Tips & Strategies
<table>
<thead>
<tr>
<th><strong>Infrastructure</strong></th>
<th><strong>Security</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Device Density</td>
<td>Security</td>
</tr>
<tr>
<td>Internet Bandwidth</td>
<td>1:1 take home</td>
</tr>
<tr>
<td>Cross Campus SSID</td>
<td>Policy on Google Dashboard</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Google Apps</strong></th>
<th><strong>Experience</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Integration Importance</td>
<td>Human Centered</td>
</tr>
<tr>
<td>Account Authentication</td>
<td>Common Sense Driven</td>
</tr>
<tr>
<td>Techs Have Our Trust</td>
<td>Available (100%) / Reliable</td>
</tr>
<tr>
<td></td>
<td>Focus Collaborative Tools</td>
</tr>
</tbody>
</table>
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 18 months

53+ M pages scanned (M = Million)

220 1:1 devices @ MHS

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

- Learning Labs
- In the Classroom

HOW OUR STUDENTS ACCESS THE WEB

ANYTIME ANYWHERE

1:1

Google confidential | Do not distribute
Examples in schools

Author

Quick Write 3rd-6th Grades

DIRECTIONS:
Click File>Make a copy...title it (your full name) OREO, and choose a topic for this delicious activity!

The story, Owl Moon, is not as great as teachers make it out to be for many reasons. First it is very hard to understand. The vocabulary Jane Yolen chose is challenging for younger students. Also, Yolen wrote this book in prose. Throughout the story, I have to stop and explain what in the world is going on. While all this being said, Owl Moon is a very slow book. This book takes place on a snowy evening. A boy and his father are looking for owls and must be quiet. As a result, there is no action and very little dialogue. This makes the story drag on even more. Even though there are great craft moves in Owl Moon, it is a very challenging book to understand.

Persuasive Writing

OREO

Opinion- Give your opinion
Owl Moon is not as great as teachers make it out to be.

Reason- Give a reason for having this opinion.
1. Owl Moon is hard to understand.
2. It is a slow book.

Example- Give an example that supports your opinion.
1. This book takes place on a snowy evening-
   THERE IS NO ACTION!
2. Even though there are great craft moves in Owl Moon, it is a very challenging book to understand.

Remember- giving 2 or 3 reasons and examples strengthens your argument and makes your writing more persuasive.

Quick Write
3rd-6th Grades

Google for Education

Google confidential | Do not distribute
Examples in schools

**Group Projects**

**Leader:** Lerni Lam  
**Writer:** Joan Cabar  
**Checker:** Amanda Vien  
**Reporter:** Joseph Wong

**Title:** 我們去看表演

**Character:**
- 中明 = 林阿林  
- 中明 = 黃家俊  
- 中明 = 袁亮  
- 中明 = 柯女人

**Vocabulary:**
- 表演  
- 樂師  
- 胡琴  
- 演員
- 照片  
- 座位  
- 神情  
- 服裝

**Scenario:** 看表演以後，他們在親戚的家。

**Skit:**

明明：我聽說你們昨天去看一個中國的表演，你們覺得中國的表演怎麼樣?

 {[Chinese text]}  

明明：太棒了！我們都很喜歡中國的表演。在表演座位都坐滿嗎?

 {[Chinese text]}  

明明：我也覺得樂師很美，可是我最喜歡一位演員。演員很好看，所以我跟他照了一張照片。

 {[Chinese text]}  

明明：等我上掛在你的照片。這是你的最喜歡的照片嗎?

 {[Chinese text]}  

明明：是啊！下次我跟你們去看表演，所以你可以看看這個演員。

 {[Chinese text]}  

Story Link: [http://goo.gl/6gCKI](http://goo.gl/6gCKI)

Word Count: 320 words

**Collaborative Story**
10th Grade
Examples in schools

Research

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/Africaspurpurt.html](http://www.animalcorner.co.uk/wildlife/Africaspurpurt.html)

Zoo Animal Research
1st and 2nd Grade
Examples in schools

**Assess and Evaluate**

**Weller Student Survey**

Feedback from 3rd - 6th grade students regarding Weller's Blended Learning program 2012-2013

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:

\[
(4 + 5) \times 3^2 - 5 = 36
\]

**The Error:** The student subtracted first instead of multiplying.

**Wrong Way:**

\[
\begin{align*}
9 \times 3^2 - 5 &= 9 \\
9 \times 9 - 5 &= 76
\end{align*}
\]

**Right Way:**

\[
\begin{align*}
(4 + 5) \times 3^2 - 5 &= 9 \\
9 \times 9 - 5 &= 81 - 5 = 76
\end{align*}
\]

**Steps:**

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

### Just Remember... P.E.M.D.A.S.

- Pegacorns after sunset
- Many doughnuts at any

**Credits:**

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

... THE END!
Examples in schools

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

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.

To go to this site to learn about some things we did this year:

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

Apps that "Get It" and Engage our Students

- Google Apps
- Blogger
- Glogster EDU
- TypingClub
- KHAN Academy
- edcanvas
- Hapara
- YouTube
- ST Math
- ClassDojo
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