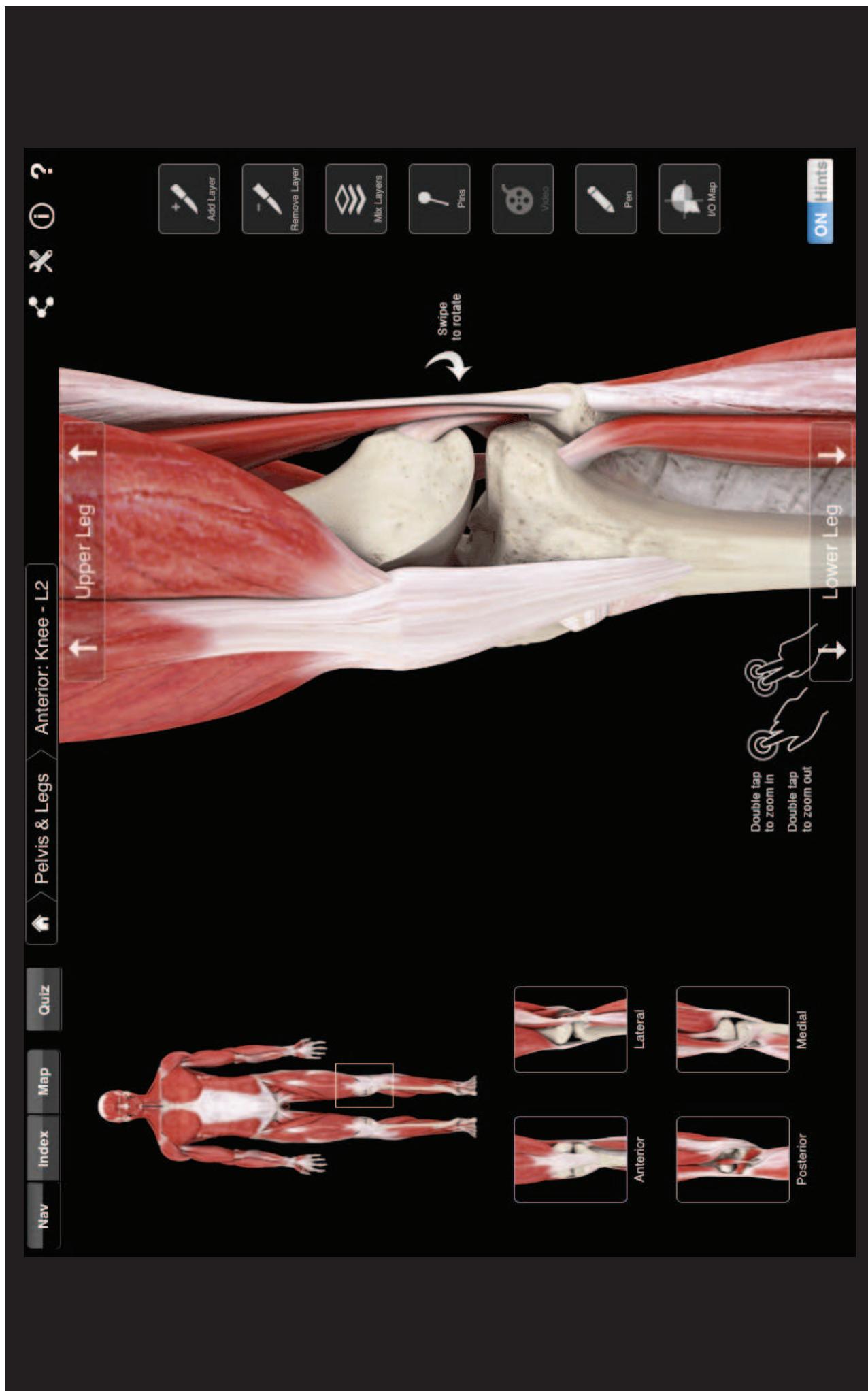


“In his working life, my son will be expected to solve real world problems, create and share meaningful work with the world, make sense of reams of unedited digital information, and regularly work with others a half a world away using computers and mobile devices.”

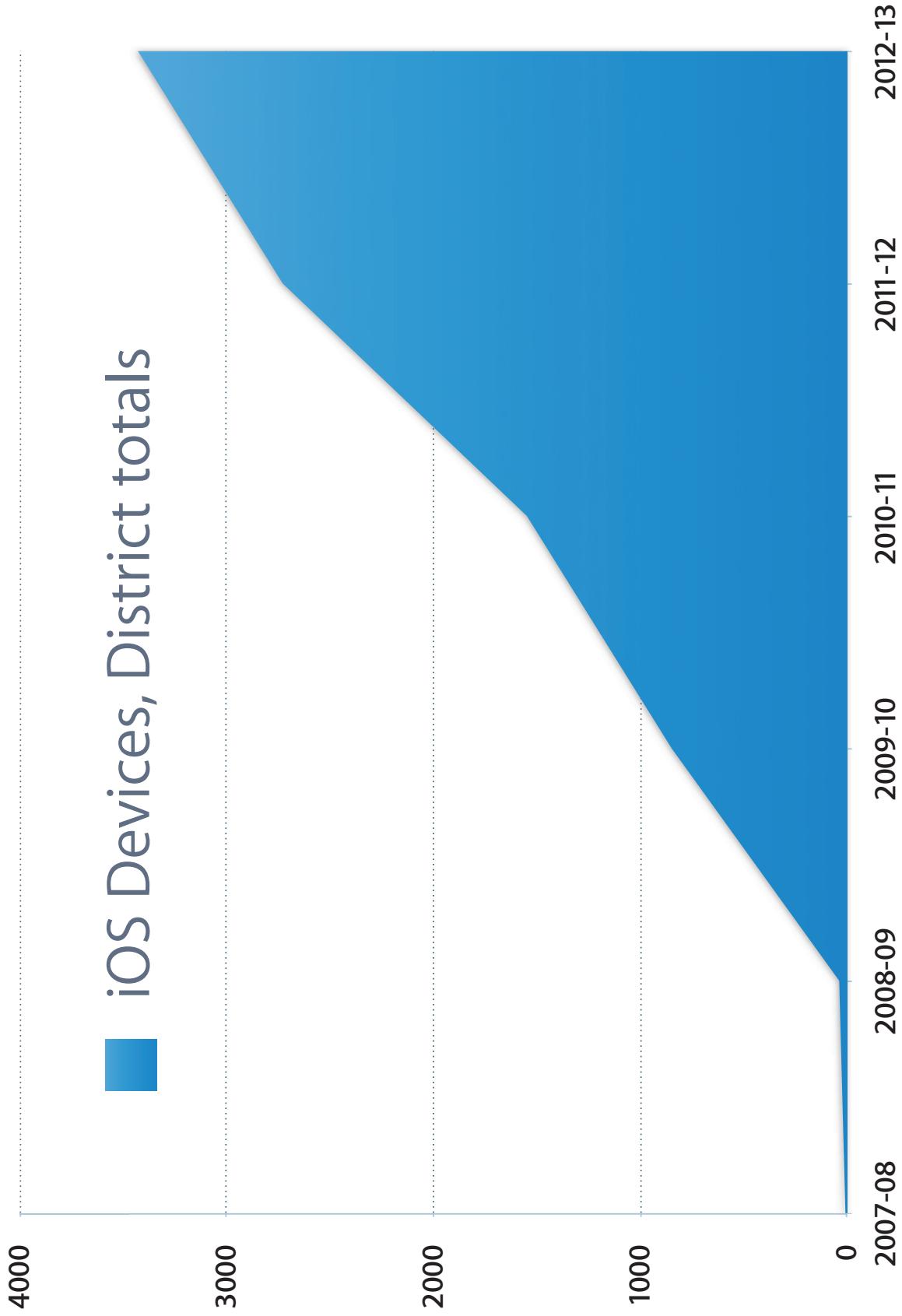
- Will Richardson, *Speaker & author*

Driving Innovation in the Classroom

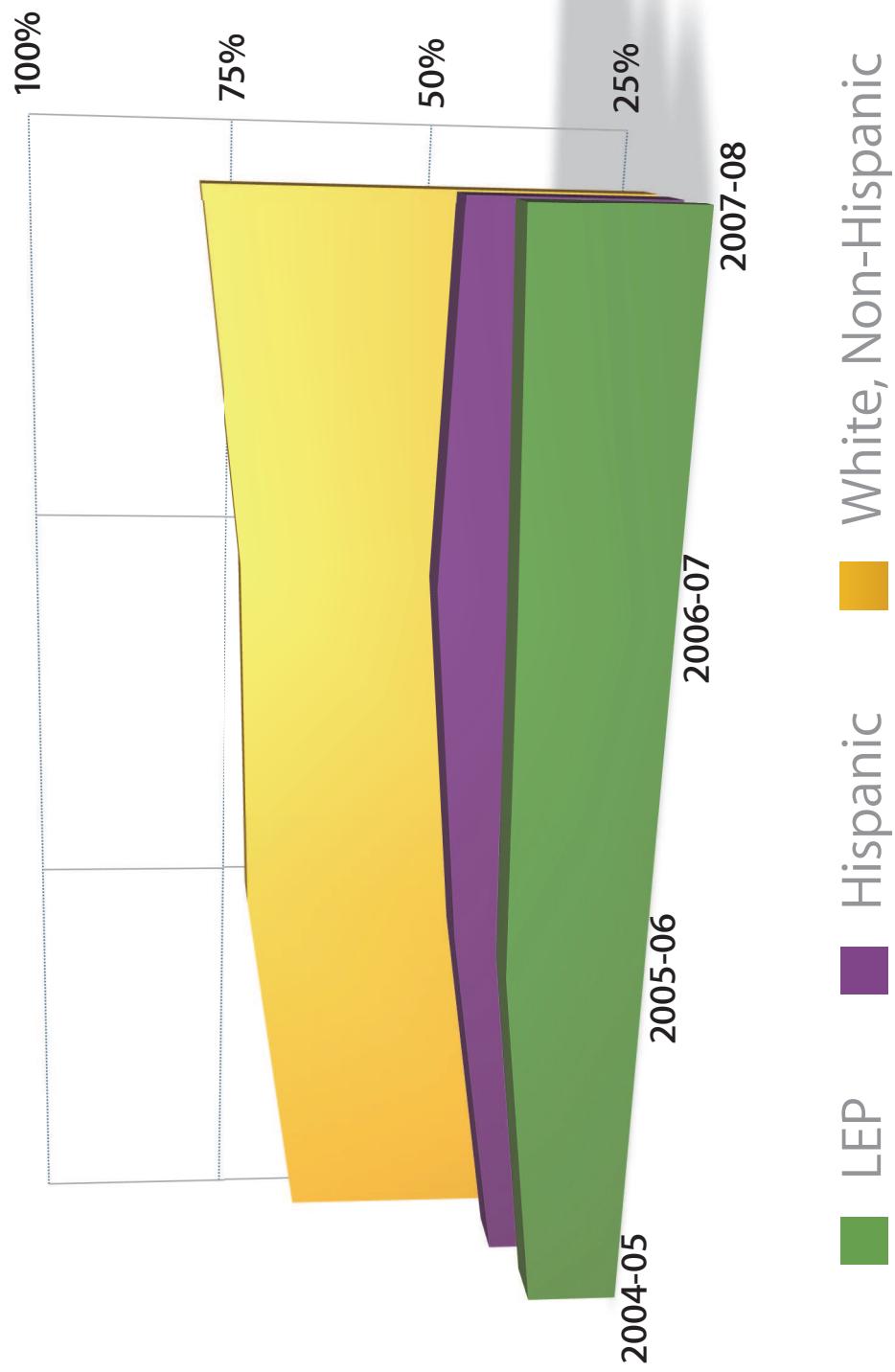
Joe Morelock
Director, Technology & Innovation
Canby School District, Canby, OR USA
morelocj@canby.k12.or.us



Canby	Students	Number of schools	English Lang. Learners	Economically Disadvantaged
	4,750	8	15%	43%



Reading Gap, High School



Tools & Infrastructure

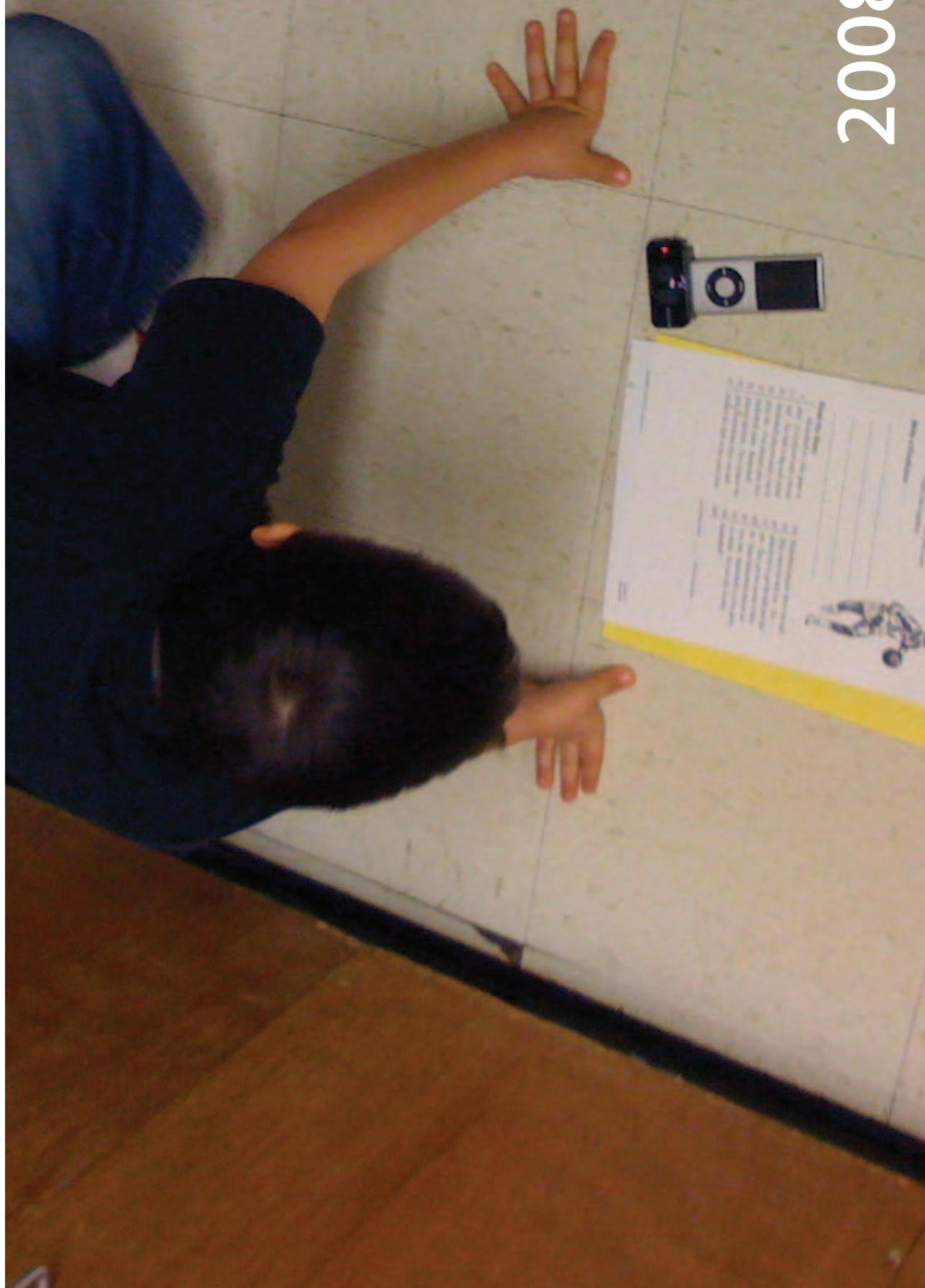
Invest in teachers

Learning first



Timeline of the Innovation Revolution

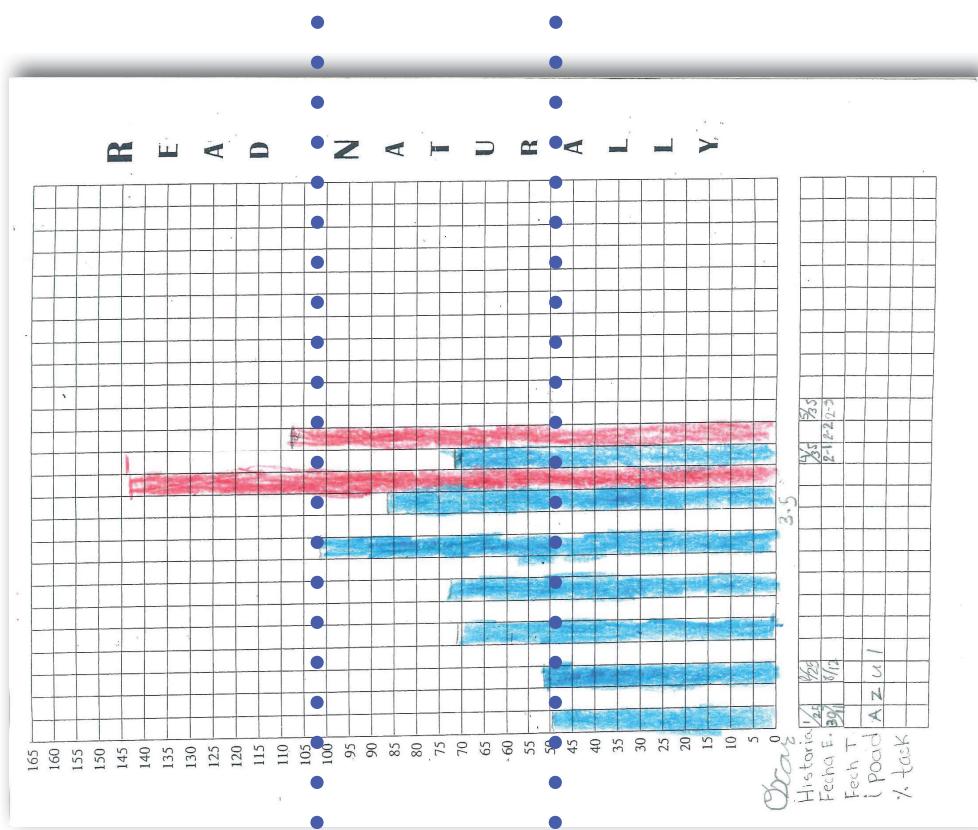
2008-09



Feedback Loop: Student Driven

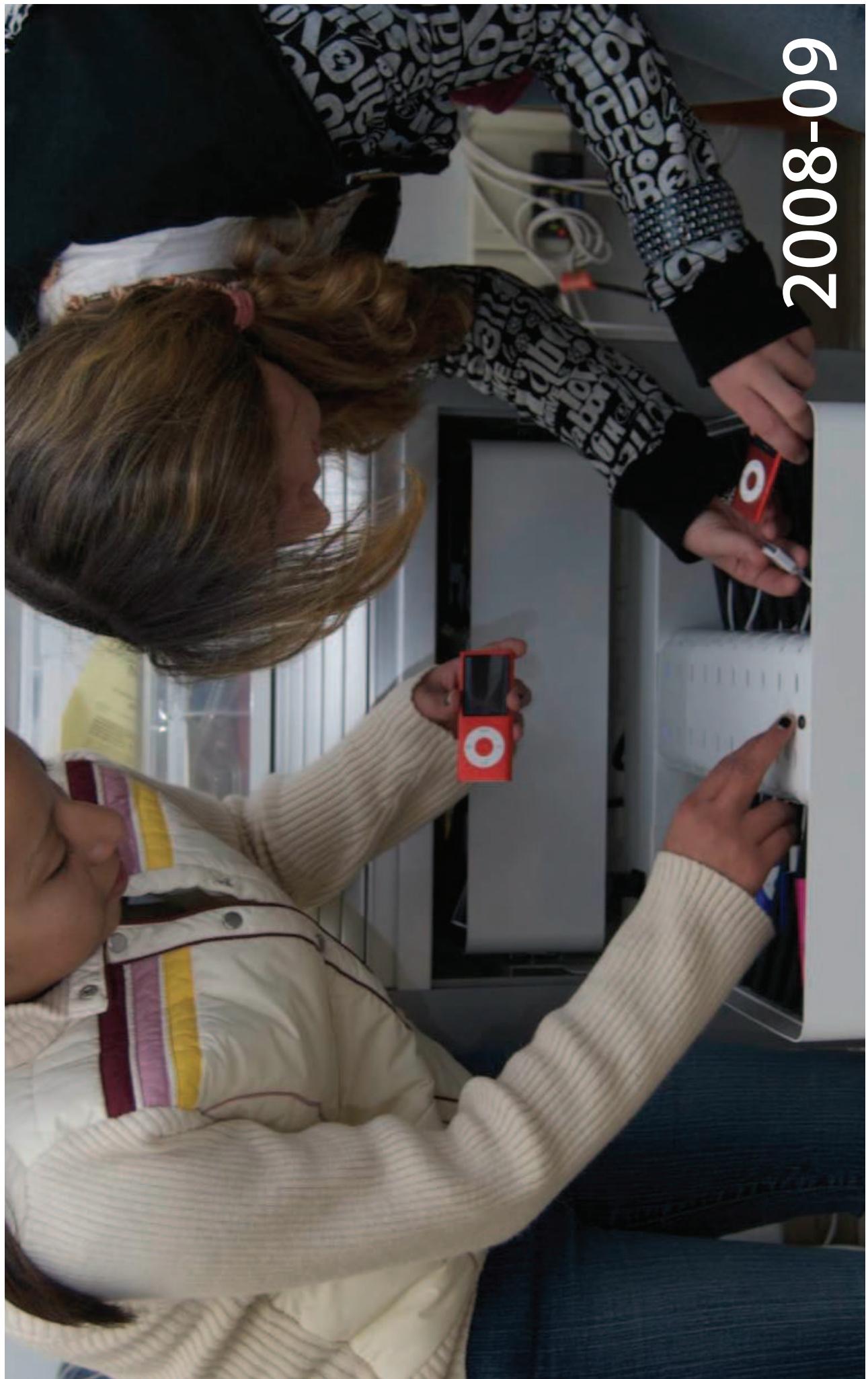
50+ WCPM
growth in
5 weeks

* 10-15 WCPM growth is
“normal” progress in 6
week period



Data from Zuleima Ardila, Elementary ESL Teacher

2008-09



2008-09



2008-09



Canby School District Reading Scores



- Meets
- Nearly Meets
- Does Not Meet

Data from 2009–2010 Oregon Assessment of Knowledge & Skills (OAKS)

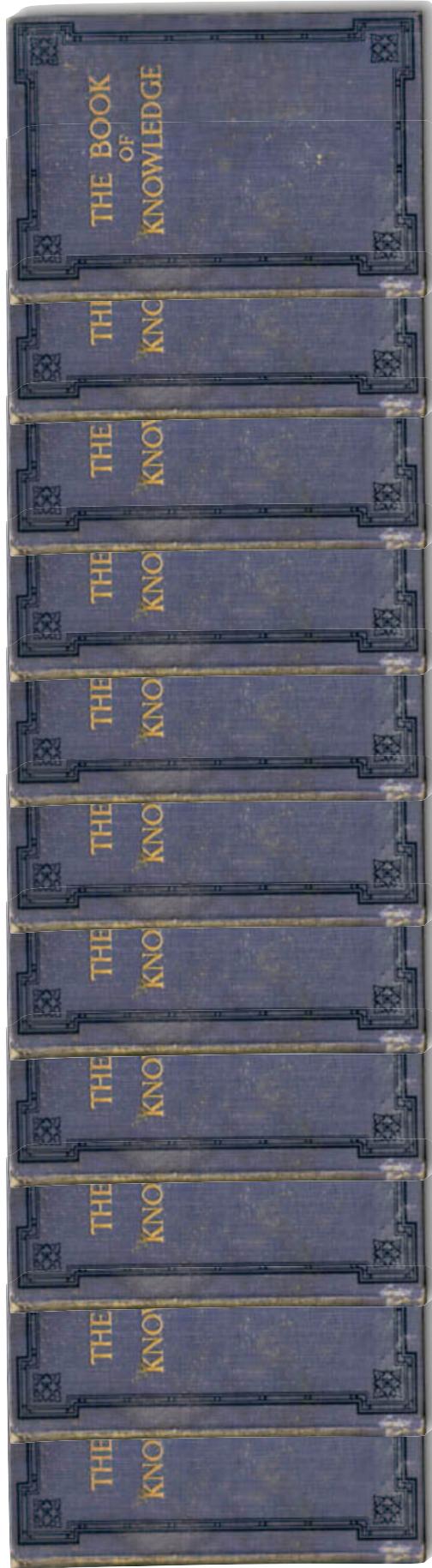
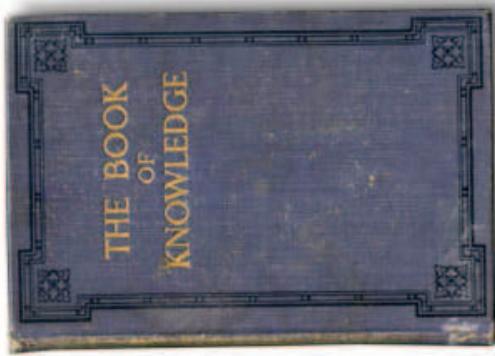
Canby School District Math Scores



- Meets
- Nearly Meets
- Does Not Meet

Data from 2009–2010 Oregon Assessment of Knowledge & Skills (OAKS)







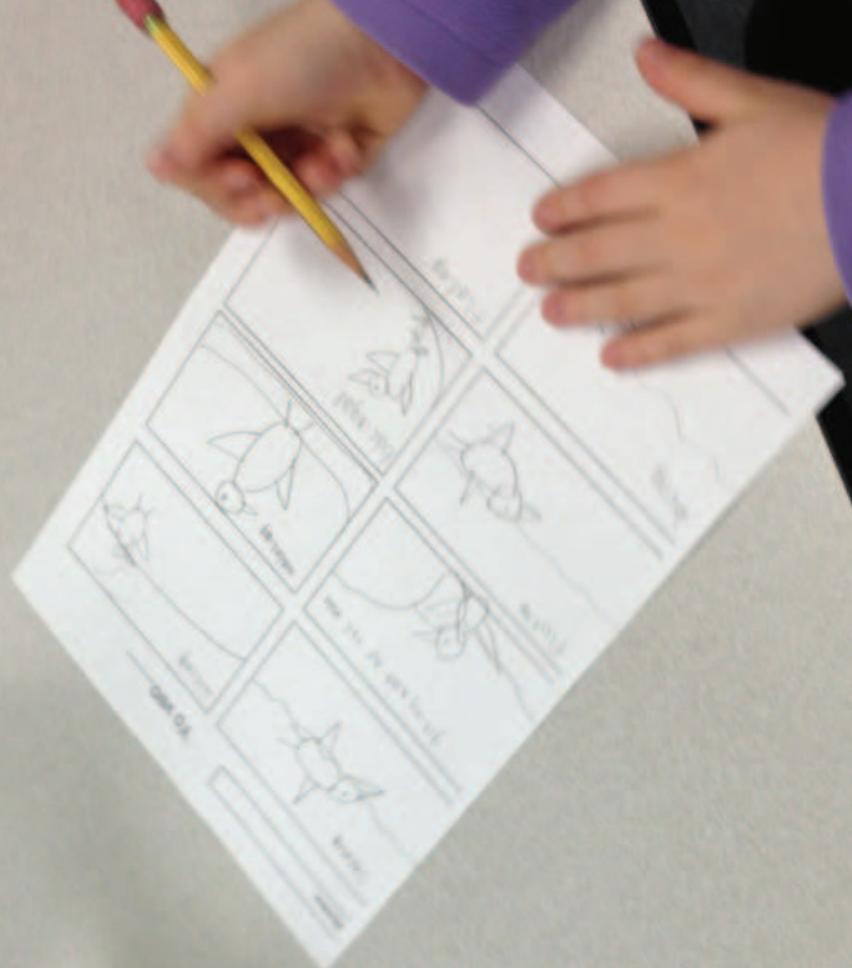
1. Maxine
2. Maxine
3. Maxine
4. Maxine



venues



Photo credit: @courrosa, Alec Courros



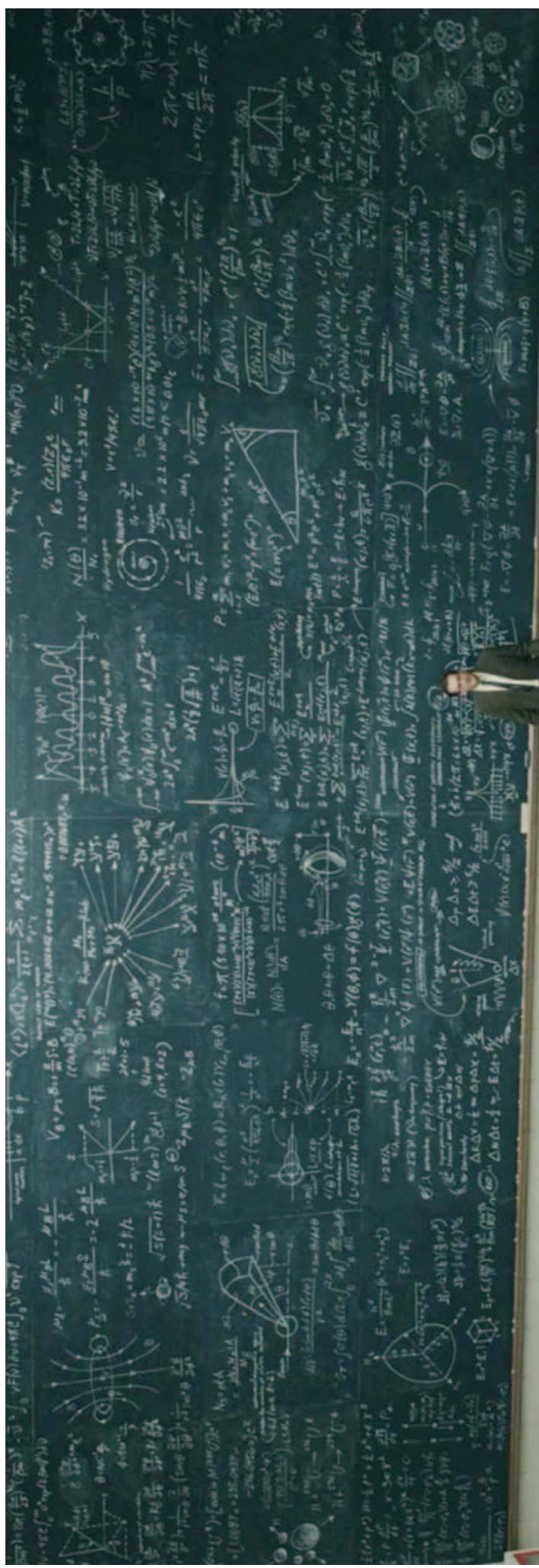
Ciclo de vida de los vegetales

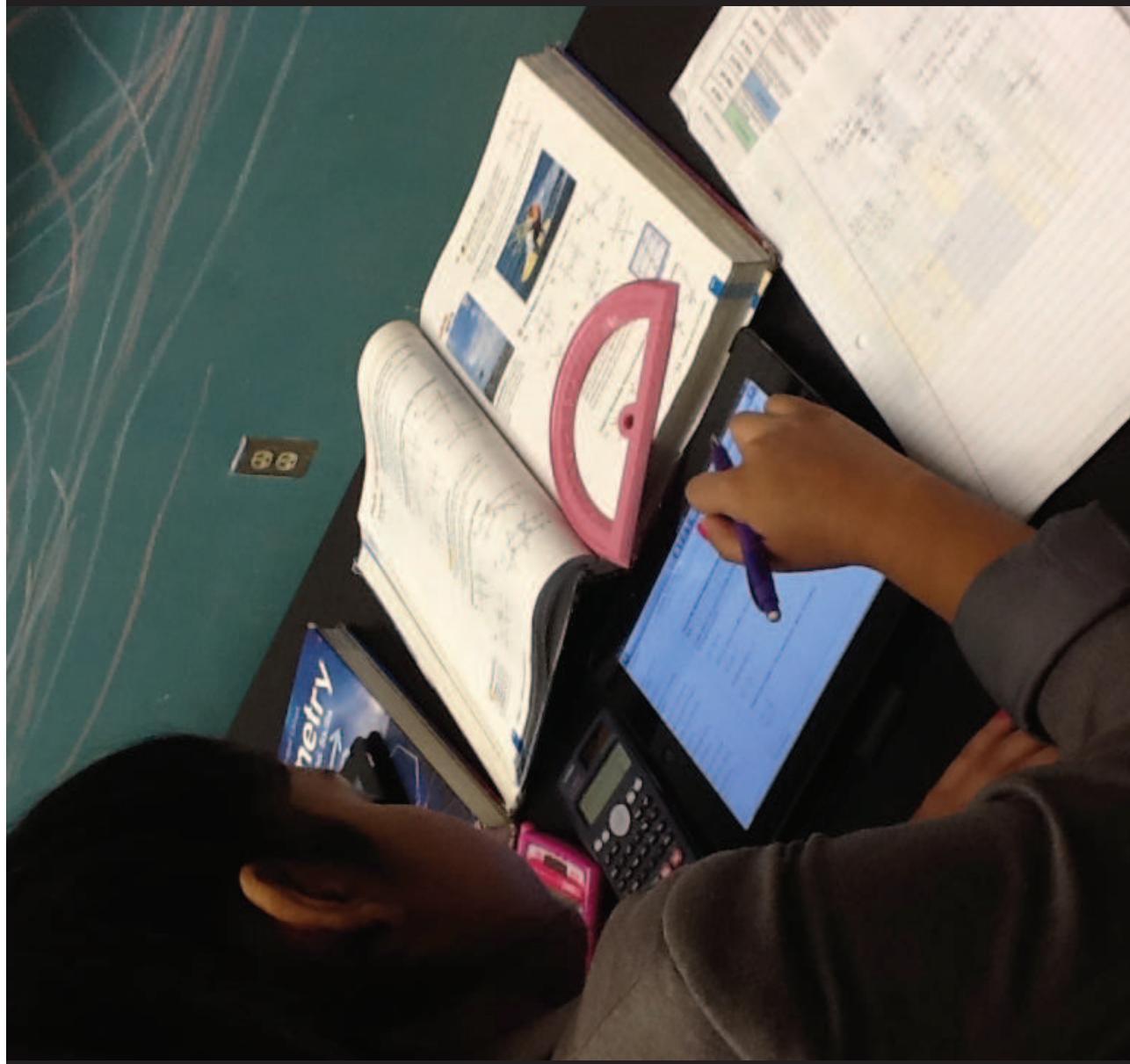




First Name	Last Name	Grade
John	Doe	10









Teacher-directed Innovation

Innovation

Fund the “dreams”

\$50K

Funds innovation in 25-30 classrooms



Diffusion of Innovations - E. Morgan (1962)



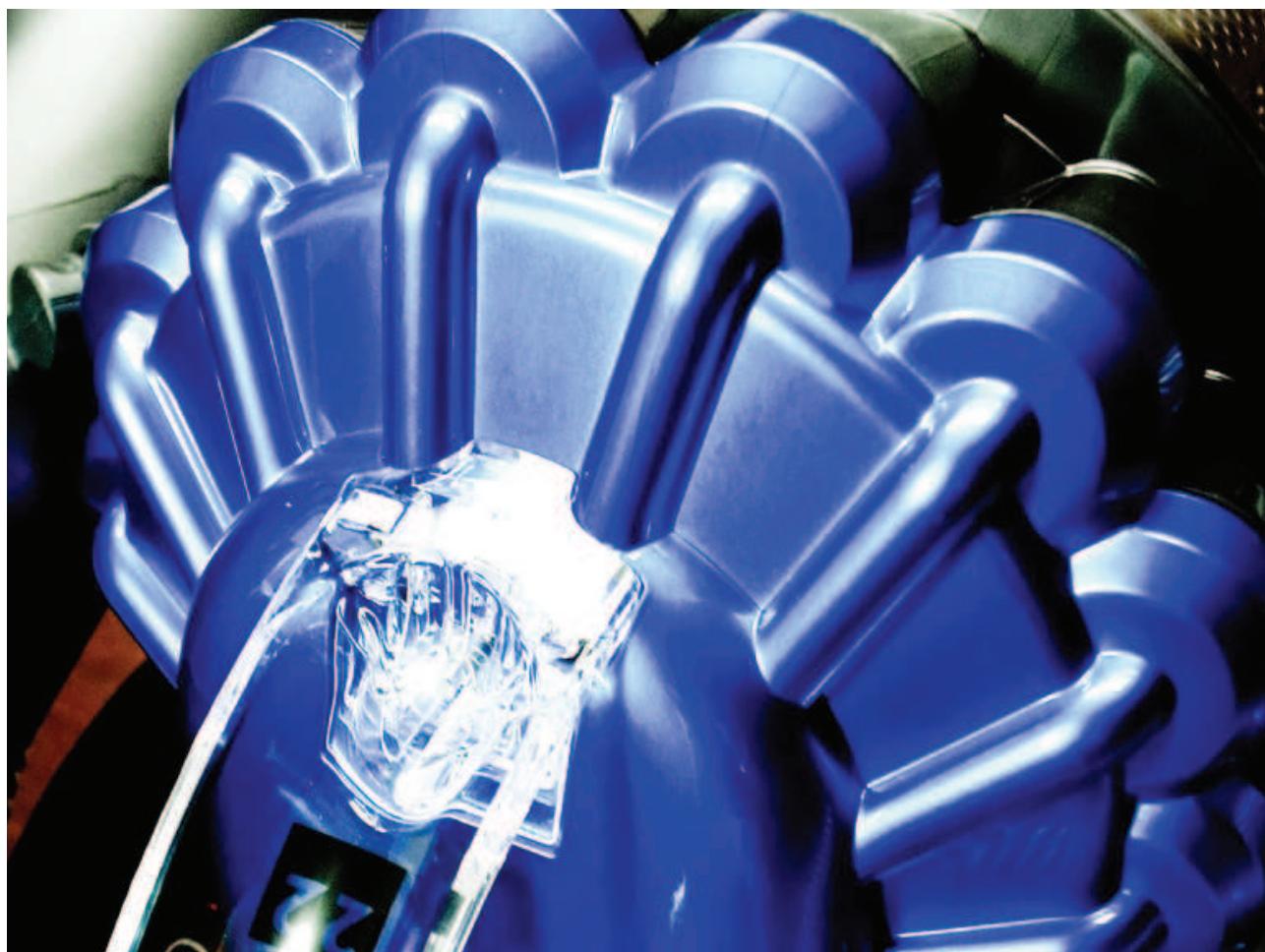
**“If you set your goals ridiculously high
and it’s a failure, you will fail above
everyone else’s success.”**

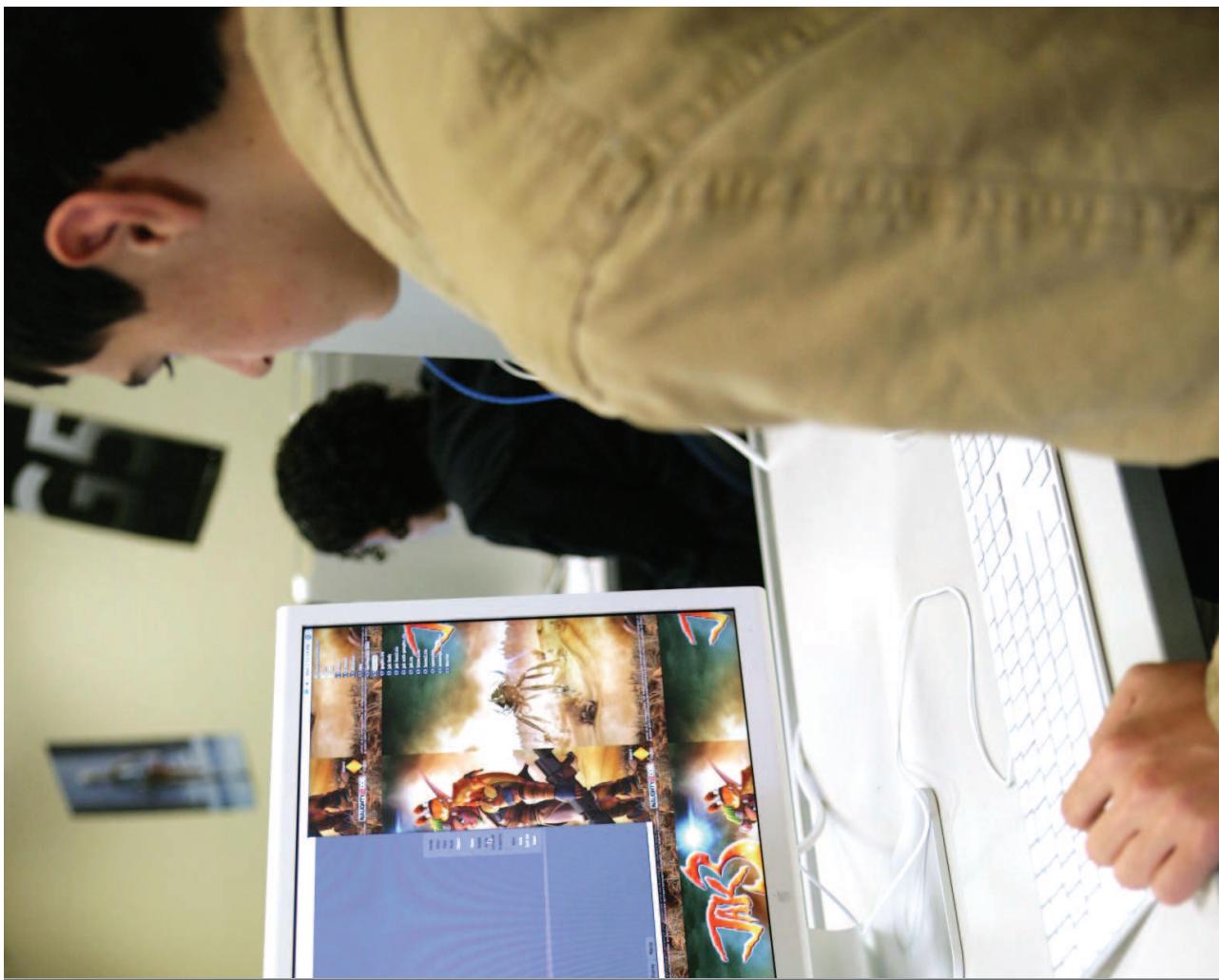
James Cameron, *film director*

Failure is okay.
Get over it.

James Dyson
famously worked
through **5,127**
prototypes of his first
vacuum cleaner
before he took it to
market.

image ©DennisCHEN.me @ flickr.com





Guess

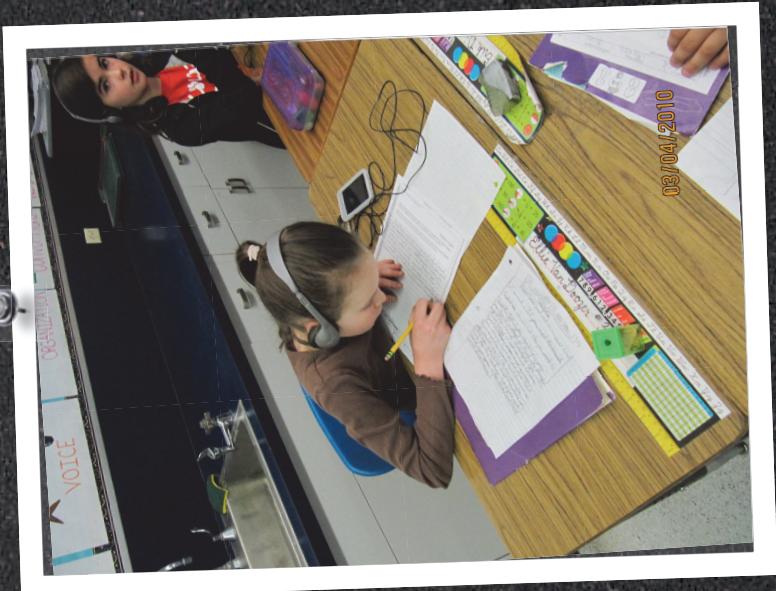
Check

Refine



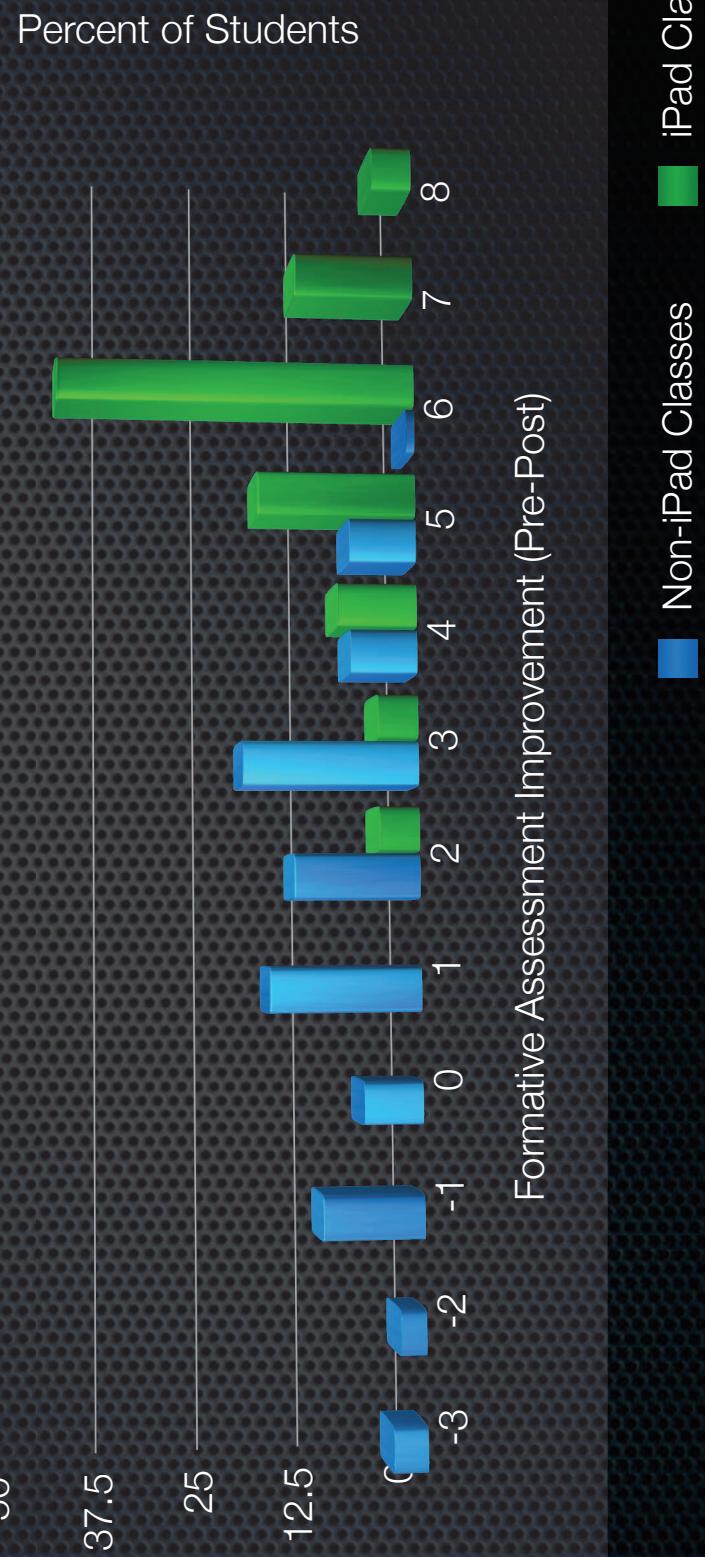
Surprise Findings

Written language scores in the area of conventions and sentence fluency have improved. Students record their writing as a voice memo and listen to correct errors. Students also use the spell check and thesaurus more frequently with the iPod touch.



Comparing Classes

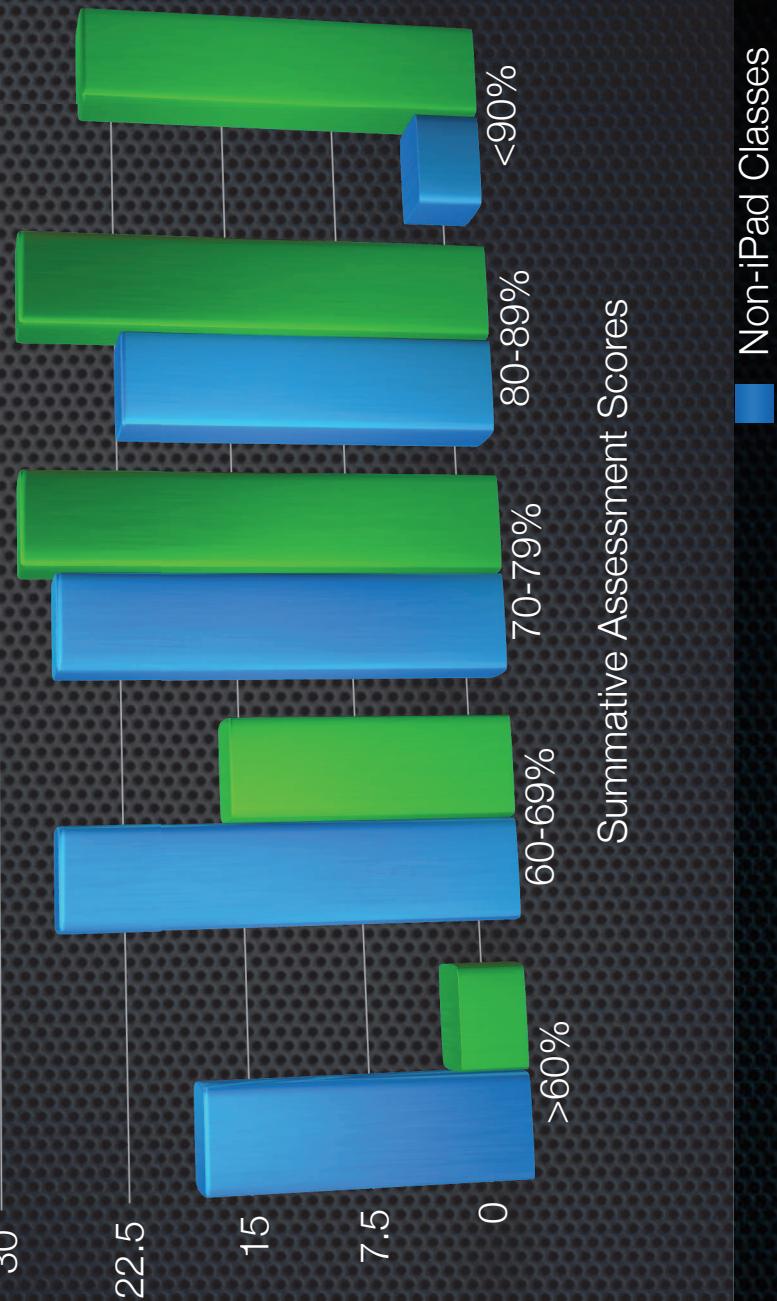
iPad classes showed more improvement between pre-test and post test assessments.



Comparing Classes

Students performed better on the Final.

Percent of Students



STUDENT 2

*"I LIKE READING WITH THE IPODS, I DON'T
FEEL SO DUMB,"*

WWPM 170-193

Miscue 7-4





All Students

Look & See

Jacquie Fitch & Kelly Turcotte: FaceTime & literature via iPads in elementary school

wiki
blog

QR Search

Innovation

Tags: 2011-12 | elementary | facetime | ipad | literacy | literature | +

Edited Jun 18, 2012 3:57 PM by Joseph Morelock..

Jacquie Fitch & Kelly Turcotte: FaceTime & literature via iPads in elementary school

Email Kelly Turcotte [turcotte@canby.k12.or.us](mailto:kellyturcotte@canby.k12.or.us) and Jacquie Fitch: fitchj@canby.k12.or.us

Download a PDF of our presentation:
[Tech Research Presentation 2012](#)

Peer Evaluations


Students from two schools, Canby and Fishbowl, participated in a FaceTime evaluation. The students were asked to evaluate their peers based on their communication skills, teamwork, and participation. The results showed that both groups had positive experiences and found the activity to be informative and enjoyable.

We have thoroughly enjoyed this tech grant experiment with our students. We've learned that no matter the place (across town, across the state, or across the country) the students LOVE working via Face Time. Regardless of the task, they just love that they are out there in cyberspace. We were able to find a great way to work together on several projects. The students met 1-2 times a week with each other and developed friendships.

We learned that allowing the students time to explore on FaceTime was incredibly important. Just like anyone who sees themselves on camera for the first time, the students had to get the awkwardness out. Giggle at themselves, covering the camera with their fingers, zooming in and out, flashing signs, you name it, they needed to do it. As teachers, we found ourselves giddy the first time we Face Timed together. Our students certainly needed that. That first meeting between the classes had one purpose, find out your new partners' names. They spent 15 minutes getting to that point. The second meeting they had to find out some things about each other and begin to focus in learning something. Finally, they were comfortable enough to begin work.

The first week of discussions was disastrous! Groups were off task, giving short, uninteresting answers. We were pretty dissatisfied with the outcome. We brainstormed how to improve this and came up with a fishbowl activity in our own rooms. We picked kids and rehearsed what the group should like look and what an interesting conversation would sound like: no one raising their hands, taking turns to talk, exploring the topic while staying on topic, and making sure everyone was participating. The fishbowl went well and we immediately began to see improvements in the way the groups were working. By the final meetings, the groups were well-oiled machines. They were giving us feedback on each others' performance. They were completely self-managing! It was awesome!

Now as we anticipate expanding this experiment across the country, and even the world, we are eager for the experience our students will have! Again, they'll need time to get the giggles out, but we're sure that like everything else that is new in our technology rich rooms, this soon will be old hat. We are looking forward to collaborating with teachers we've met from Texas, Utah, New Mexico, South Dakota, Nova Scotia and Singapore. The possibilities and opportunities for our students are endless.

Comments

Innovation Recipe

- 1 Allow & expect failure
- 2 Open the learning network
- 3 Give time for teachers to work it out
- 4 Provide support when necessary
- 5 Make innovation sustainable

AT&T 7:35 PM 95%

www.khanacademy.org/ Google

Edmodo | Free Private Social Platform for Education Khan Academy High School Core Content: Lang Arts & Huma...



KHANACADEMY

Browse our library of over 3,000 educational videos...

Math

Science

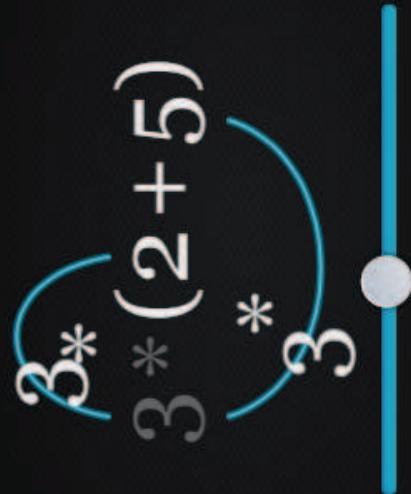
Humanities & Other

Test Prep

Talks and Interviews

[View standard site](#)

Distribution

$$3 * (2 + 5)$$


See how we're matching up with every part of the sum? Drag the slider across to distribute.

Back

Show Me

Explain Practice

i

Biblio

THE BOUNDLESS LIBRARY

RECENTLY VIEWED

The Electric Kitchen

By Elizabeth Ram

Mad Science

A Photo Gallery

New York Haute

Cuisine

By Amy Azzarito

CHECK THESE OUT

A Monument to a King
and a Nation

By Bogdan Horbal

War and the Czech
Pavilion

A Story

"New York is
Calling..."

A Photo Gallery

THE WORLD OF TOMORROW
EXPLORING THE 1939-40 WORLD'S FAIR COLLECTION

An NYPL Digital Publication



Lectura

Post:

 Note Alert Assignment Quiz Poll

type your note here...

Lectura

Filter posts by ▾

+ Show Notifications

Latest Posts

Direct

By Students

Assignments

more ▾

Oct 7, 2011 | Reply | Tag ▾ | More ▾

Brookelynn T. to Lectura



Groups Join or Create

20 Ways to use Edmodo

Canby Innovation Grant

CSD Tech Tribe

Elementary iPod/iPad Classroom

Group 1

iREAD

Lectores

Lectura

Oct 7, 2011 | Reply | Tag ▾ | More ▾

Yaire P. to Lectura



El mio se aver con una cabezota y holitos chiquito

Oct 7, 2011 | Reply | Tag ▾ | More ▾

Benjamin B. - Me gusts.



Oct 7, 2011 | Jair V. - chichiquilate y baila mucho



Oct 7, 2011

Type a reply...

Enrique M. to Lectura



Mi maestro se va a ver muy grande.

Secondary iPod/iPad Classroom

Show Fewer ▾

Show All

Public Page

Grades

Withdraw



TOP STORIES

LATEST: Third victim of Ohio school shooting dies, hospital officials say, hours after a second is declared brain dead**Sarkozy orders new genocide law****9/11 remains 'went to landfill'****Syria toll passes 7,500, UN says****Romney faces key test in Michigan**

US & CANADA

**Briton Tappin appears in US court****Obama welcomes partial pipeline****US denies Mexico drug war failure****Obama creates US trade task force**

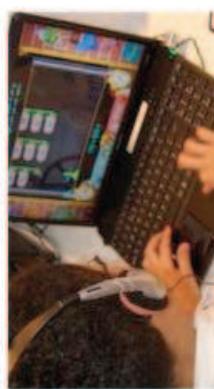
TECHNOLOGY

**Apple iPad 3 expected within days****Police detain Anonymous suspects****New teacher computer skills call****Google 'fails EU privacy rules'****Apple iPad 3 expected within days**

FEATURES & ANALYSIS

**How jeans conquered the world****A first glimpse Inside Fukushima**

Page last updated at 08:51 CST, Tuesday, 28 February 2012

New teacher computer skills call

The UK needs a new "infrastructure" to support the teaching of computing in schools, the chancellor has been told.

Leading education and industry groups have signed a letter asking George Osborne to fund new computer training for teachers.

Next Gen Skills, which organised the call, said teachers would need support ahead of possible curriculum changes.

The government is consulting on a new flexible curriculum more focused on computer science and programming.

Ahead of this year's budget on 21 March, the letter asks the chancellor: "To support the development of a new computer science and information and communications technology teaching infrastructure... so the UK can truly take advantage of the curriculum reforms proposed in January this year by the secretary of state for education."

Backers of the letter include UKIE - representing the UK games industry, NAMM, the trade body of the music and instrument and

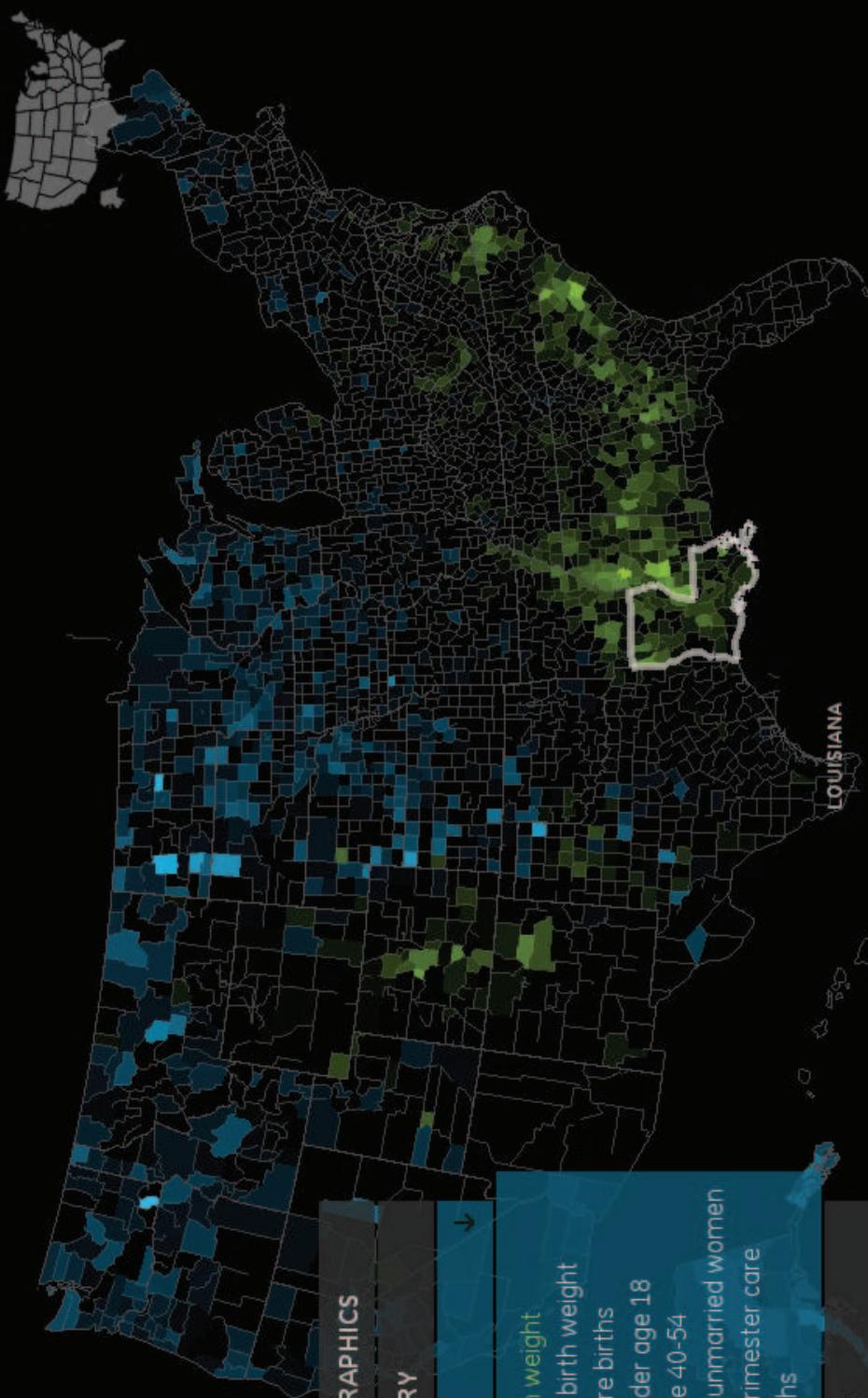
Your trip begins at BBC.com/travel

— START YOUR JOURNEY HERE —

**BBC TRAVEL**

Stats of the Union

SNAPSHOT ABOUT ?



DEMOGRAPHICS

SUMMARY

BIRTHS

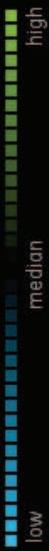
DEATHS

AT-RISK GROUPS

DISEASES

RISK FACTORS

Low birth weight
Birth weight of less than 2500 g



HISTORY

published
1999



SECTION 1

Pocahontas

Section Questions

1. Why might historical accounts of events change over time, even if from the same author?



con•tro•ver•sy | 'käntrə,varsē |

noun (pl. **controversies**)

disagreement, typically when prolonged, public, and heated: *he sometimes caused controversy because of his foulish virtues* | *the announcement ended a protracted controversy.*

ORIGIN late Middle English: from Latin

controversia, from *contro* 'turned against, disputed,' from *contro-* (variant of *contra-* 'against') + *versus*, past participle of *vertere* 'to turn.'

*Id malesuada lectus. Suspendisse potenti. Etiam fe
luis. Id malesuada lectus. Suspendisse potenti.*

In April 1607, colonists from the Virginia Company of London landed in Virginia. They would formally establish the Jamestown Colony the following year. Among the men was John Smith, a seasoned 27-year old adventurer. Smith became one of the leaders of the colony, but in December 2007 he was captured by a party of sol-

Search Web

Search Wikipedia

The story has become a significant part of American lore, but there is controversy among historians about whether the events actually happened



Lecture 1: Introductions

1

Lecture 1: Introductions

- **Lecture 1: Introduction**
An introduction to data visualization and iOS development.

Lecture 2: Objective-C

2

Lecture 2 Video

- Lecture 1 Video
- Lecture 1 Slides
- Reading: iOS Overview
- Reading: Creating Your First iOS App

Lecture 3: InfoViz with Map...

1

Lecture 3 Video

- Lecture 1 Video
- Lecture 1 Slides
- Reading: iOS Overview
- Reading: Creating Your First iOS App

Lecture 4: Protocols, Deleg...

2

Lecture 4 Video

- Lecture 1 Video
- Lecture 1 Slides
- Reading: iOS Overview
- Reading: Creating Your First iOS App

Lecture 5: Visualizing Conv...

1

Lecture 5 Video

- Lecture 1 Video
- Lecture 1 Slides
- Reading: iOS Overview
- Reading: Creating Your First iOS App

Lecture 6: MapKit (and Zom...

2

Lecture 6 Video

- Lecture 1 Video
- Lecture 1 Slides
- Reading: iOS Overview
- Reading: Creating Your First iOS App

Lecture 7: Info Seeking / Ta...

1

Lecture 7 Video

- Lecture 1 Video
- Lecture 1 Slides
- Reading: iOS Overview
- Reading: Creating Your First iOS App

Lecture 8: Persistence and...

2

Lecture 8 Video

- Lecture 1 Video
- Lecture 1 Slides
- Reading: iOS Overview
- Reading: Creating Your First iOS App

Lecture 9: Twitter Framewo...

1

Lecture 9 Video

- Lecture 1 Video
- Lecture 1 Slides
- Reading: iOS Overview
- Reading: Creating Your First iOS App

Lecture 10: Custom Views...

1

Lecture 10 Video

- Lecture 1 Video
- Lecture 1 Slides
- Reading: iOS Overview
- Reading: Creating Your First iOS App



**“Never memorize
what you can look
up in books.”**

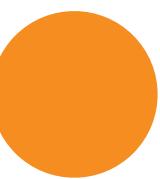
Albert Einstein, *Really smart guy*

Critical thinking skills

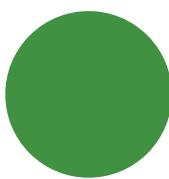
What would happen if the capital of Oregon moved from Salem to Portland?



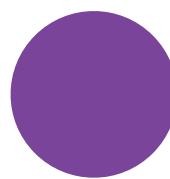




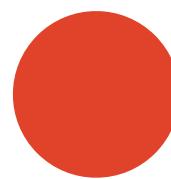
Information fluency



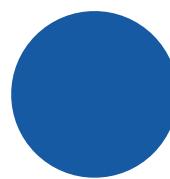
Solution fluency



Creativity fluency



Collaboration fluency

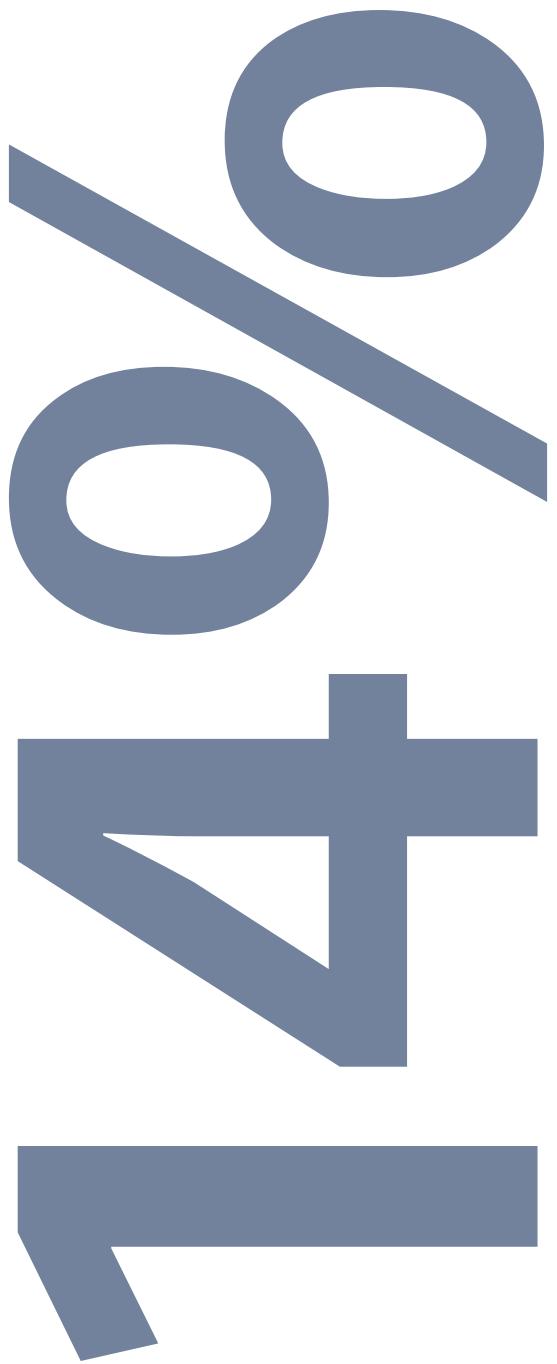


Media fluency



21st Century Fluency Project

Final Considerations



Of what?

Century.





Now what?

Technology Funding

2008-09

General Fund \$

One-time \$

2009-10

General Fund \$

One-time \$

2010-11

General

One-time \$

2011-12

G

One-time \$

Priorities



Running water



Books



Technology



Policy



Remember:



Remember:



"It's easy to come up with new ideas; the hard part is letting go of what worked for you two years ago, but will soon be out of date."

- Roger von Oech, *Creative Think*

2008-09



Tools & Infrastructure

Invest in teachers

Learning first



"As for the future, your task is not to foresee it, but to enable it."

- Antoine de Saint Exupéry, Author, The Little Prince

Links for technology in the classroom

All Innovation Grant presentations (including last year's):

[wiki.canby.k12.or.us/groups/innovation](#)

Deployment processes for iPods & iPads:

[wiki.canby.k12.or.us/groups/ipodusergroup](#)

Contact:

Joe Morelock, Director of Technology & Innovation
morelocj@canby.k12.or.us