

iKinder, Do You?

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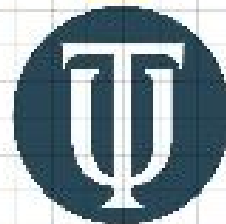
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Exploring iPads & 21st Century Learning for Young Learners

EQUITY • ACCESS • RESEARCH •
LIFELONG LEARNING • TEACHER
DEVELOPMENT

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Find all resources from this presentation here.

Want to ask a question?

goo.gl/slides/tv8gy6

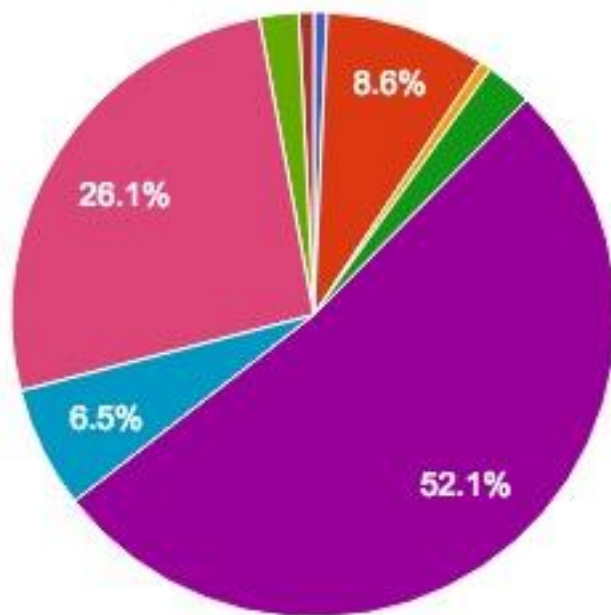
Include your email and I'll
respond later.



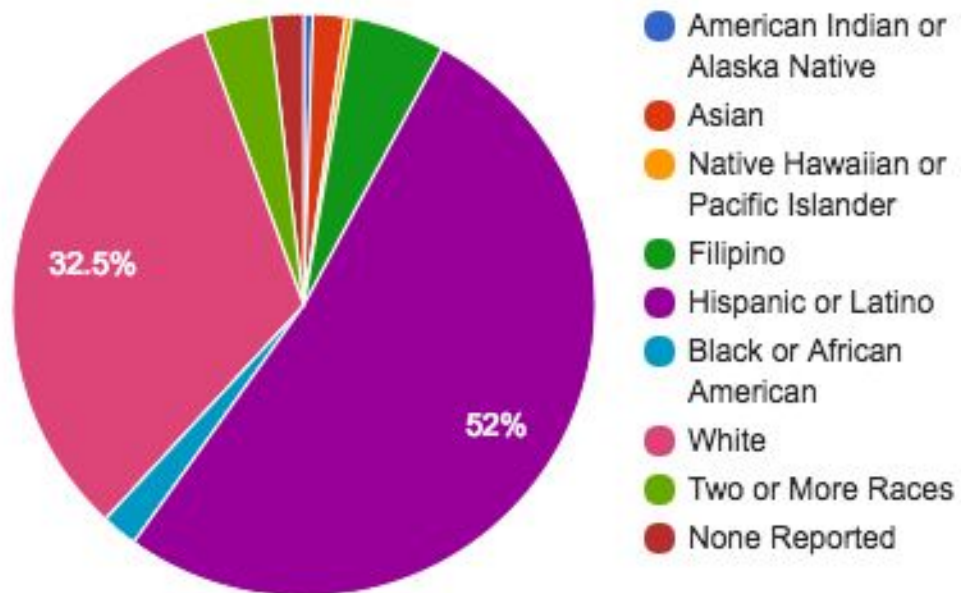




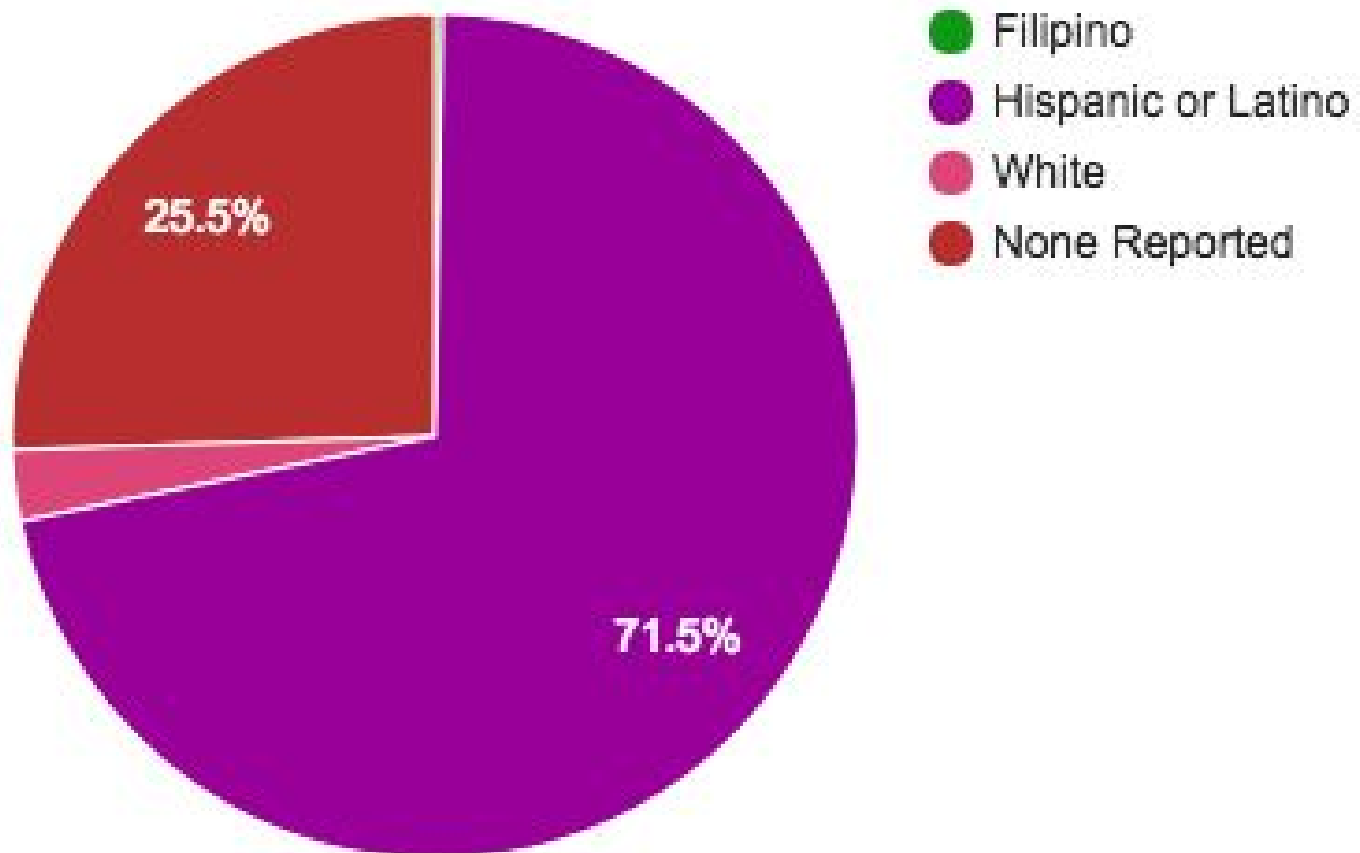
State Demographics



County Demographics



Calistoga Unified School District





42% English Learners
80.2% Free and Reduced Meals (FRM)

Among the most important tasks of the first five years of life is the development of language.

Children's language ability affects learning and development in all areas.

Language strongly predicts later success in learning to read and write



image courtesy pregnancy.org

- Snow, Burns, & Griffin 1998



naeyc®

Importance
of Language
Development





Image from: www.ci.sherman.tx.us

Children who are skilled communicators are likely to demonstrate better social competence and school readiness.

Persistent Achievement Gaps & Language



of students growing up in poverty graduate from college by age 24, compared with 80% of students in more affluent areas.

Reardon, Sean F. "The widening academic achievement gap between the rich and the poor: New evidence and possible explanations" in R. Murnane & G. Duncan (Eds.), *Whither Opportunity? Rising Inequality and the Uncertain Life Chances of Low-Income Children*, New York: Russell Sage Foundation Press, 2011

Stanford Study (2013)





BY THE AGE OF 3,
HIGH-INCOME CHILDREN HAVE
DOUBLE THE VOCABULARY
OF LOW-INCOME CHILDREN.

A Quiz

How many
unique words per
hour does a
toddler hear if
they are from:

_____ Affluent Family

_____ Working Family

_____ Family on Assistance



A Quiz

How many
unique words
per hour does a
toddler hear if
they are from:

2176 Affluent Family

 Working Family

 Family on Assistance



A Quiz

How many
unique words
per hour does a
toddler hear if
they are from:

2176 Affluent Family

1498 Working Family

 Family on Assistance



A Quiz

How many
unique words
per hour does a
toddler hear if
they are from:

2176 Affluent Family

1498 Working Family

974 Family on Assistance





Extrapolation

At-risk children hear 30 million fewer words by age 4 than their more affluent peers.

image: booksforkids.org



Research: Hart & Risley, 1995, 2001, 2003
Book: Dana Suskind, M.D.

Source: ThirtyMillionWords.org

25%

fewer vocabulary words needed to succeed.

88%

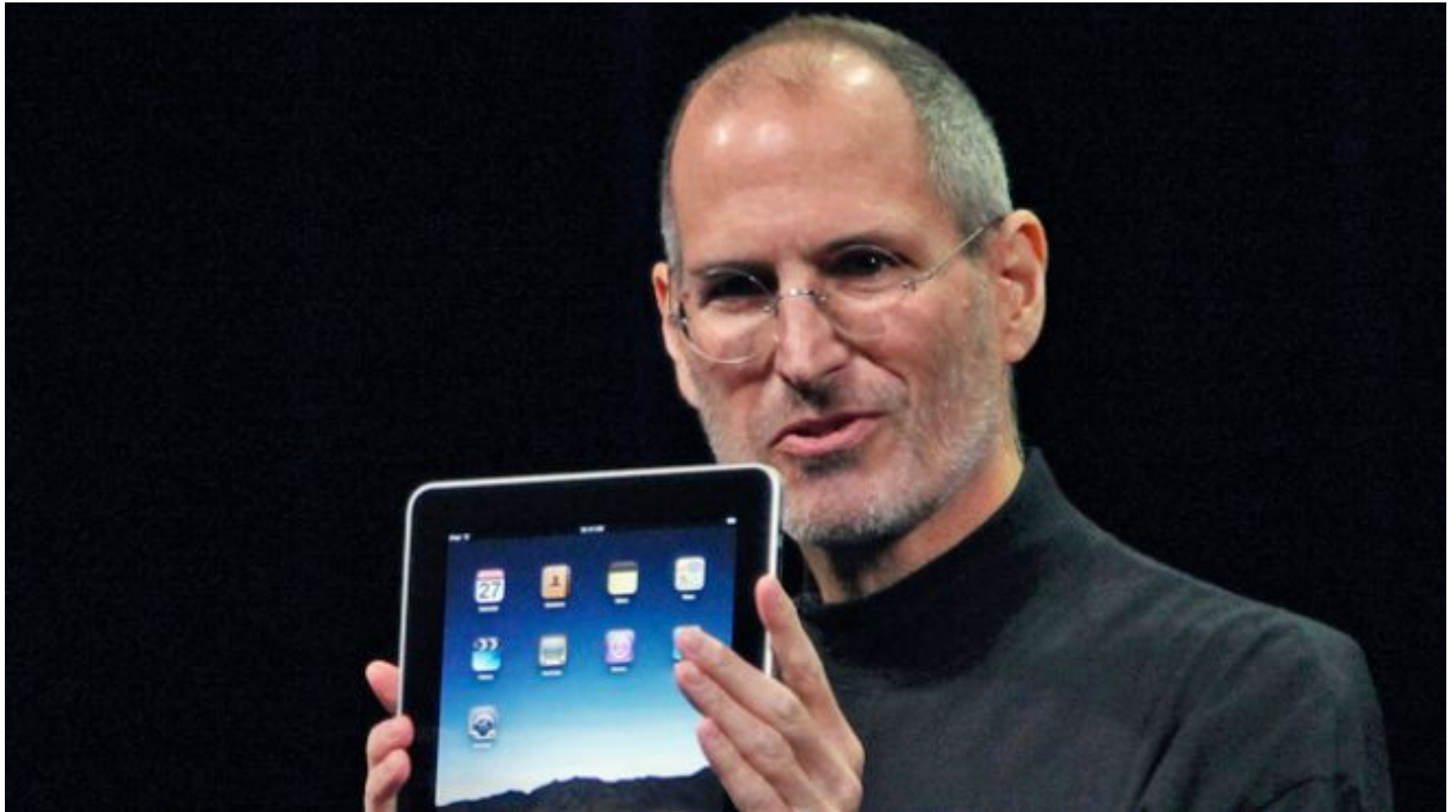
never catch up.

(Hart & Risely, 1995)

Carlo, M., et al. (2004). *Closing the Gap: Addressing the Vocabulary Needs of English-Language Learners in Bilingual and Mainstream Classrooms*. Reading Research Quarterly, v39 n2 p188-215 Apr-Jun 2004

4 Year Research Study

If we immerse EL students in vocabulary, can we close the achievement gap?



April 2010

Stimulating Digital Early Literacy



Our Pilot Project

Summer Bridges - a summer program for Pre-K



Kim Floyd, Yountville School, NVUSD Kindergarten Teacher
Touro Master's Degree in Education Research Project.

<https://youtu.be/Krf52MtO5wE>

Exposure to
Language

AND NON-
JUDGEMENTAL
REPETITION



Source: <http://blog.languagelizard.com/2011/09/12/learning-foreign-languages-5-reasons-why-a-small-amount-of-language-exposure-is-beneficial/>





Mastery Learning

(aka gaming)

Engagement

- Achievable Challenges
- Rewards = Pleasure
- Physical = Dopamine
- Emotional = OK to Fail
- Cognitive = ever increasing challenges





Higher-Order Thinking Skills

Social Learning

Managing/Planning
(analyze-synthesize)

Strategize

Create

SELF-DIRECTED

DEL RESEARCH Focus Year 1

Receptive Language & 21st C Skills





footsteps²brilliance[®]



Big Brains for Little People[™]

- **ALPS** (Academic Language Program for Students)
 - fiction
- **Alphabet Animals**
 - non-fiction
- **Karaoke Nursery Rhymes**
- **Games**
- **Mega Mouth 1 & 2**
- **Aesop's Fables**

Reports

**All books are in English and Spanish*



Mega Mouth Decoders



Mega Mouth Decoders Songbook





Footsteps2Brilliance™
Early Learning Mobile Game Platform

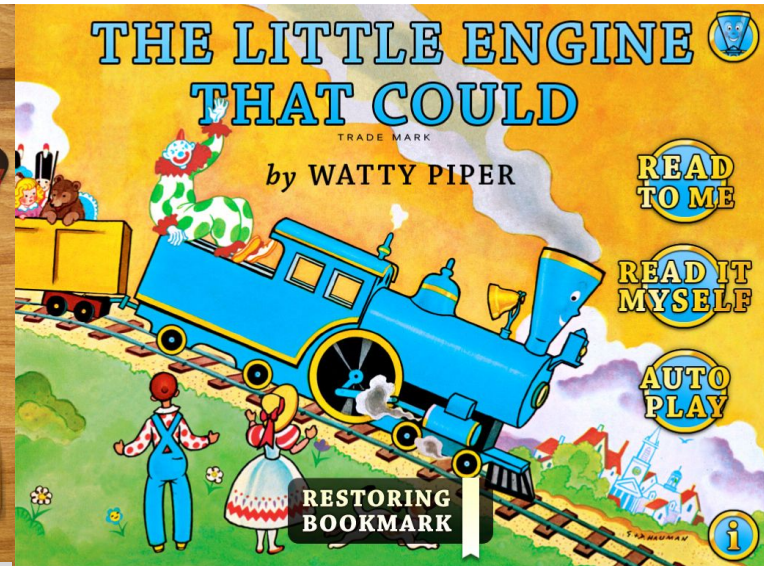


Curating Apps for Language Immersion & 21c Skill Development

- Language and basic skill acquisition
- Literature
- Story telling
- Creativity
- teacher use



Scour the App Store for Literature & Reading Practice Apps

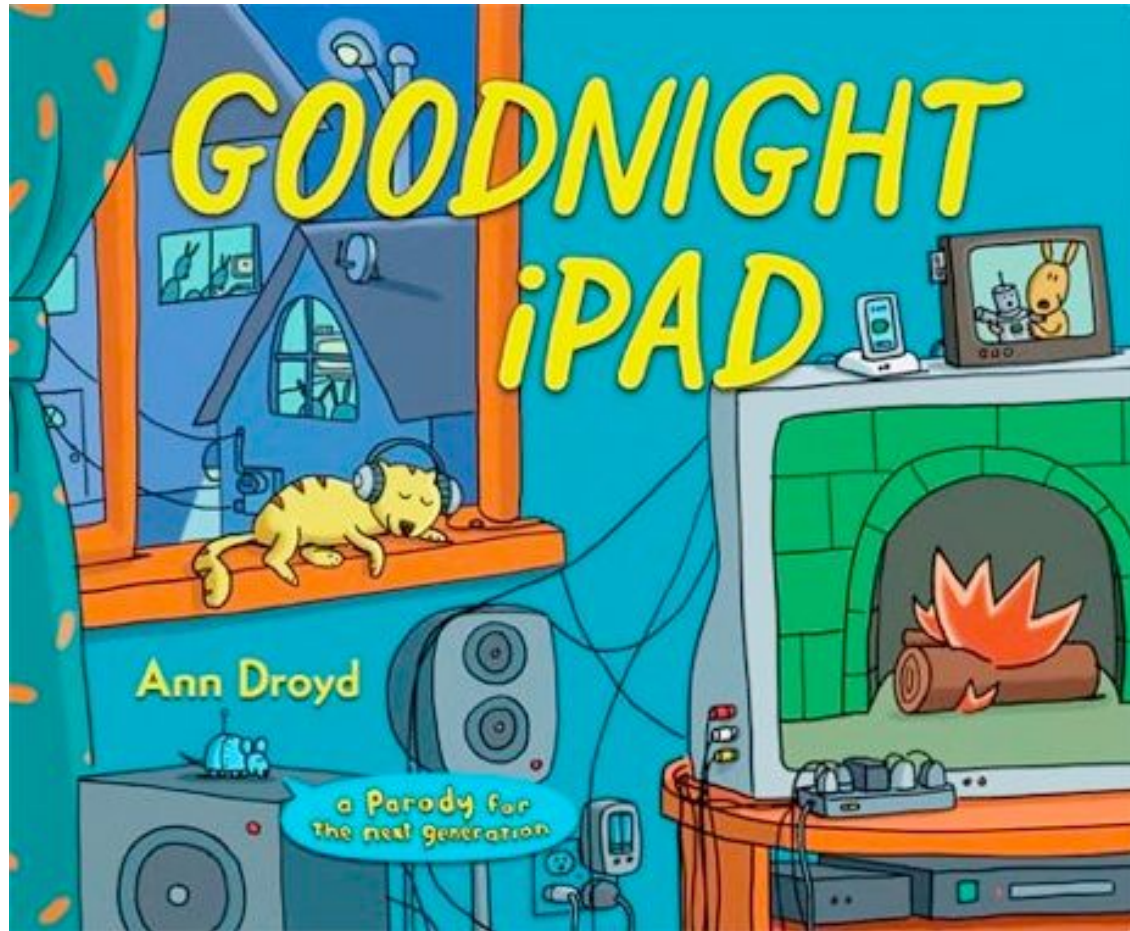


Managing Apps

- MAY do & MUST do



QR Codes = Quick Response



<http://youtu.be/-ouOwpYQqic>

...or This?



Youtube of Goodnight iPad

Learning Centers



1. Listening Stations - Daily 5 rotations.
2. Individual or small group
3. Can be used to connect to your projector/smart board for the whole class.

RecordMP3.org

Generates a URL you can put into a QR code generator.



Audio QR Codes

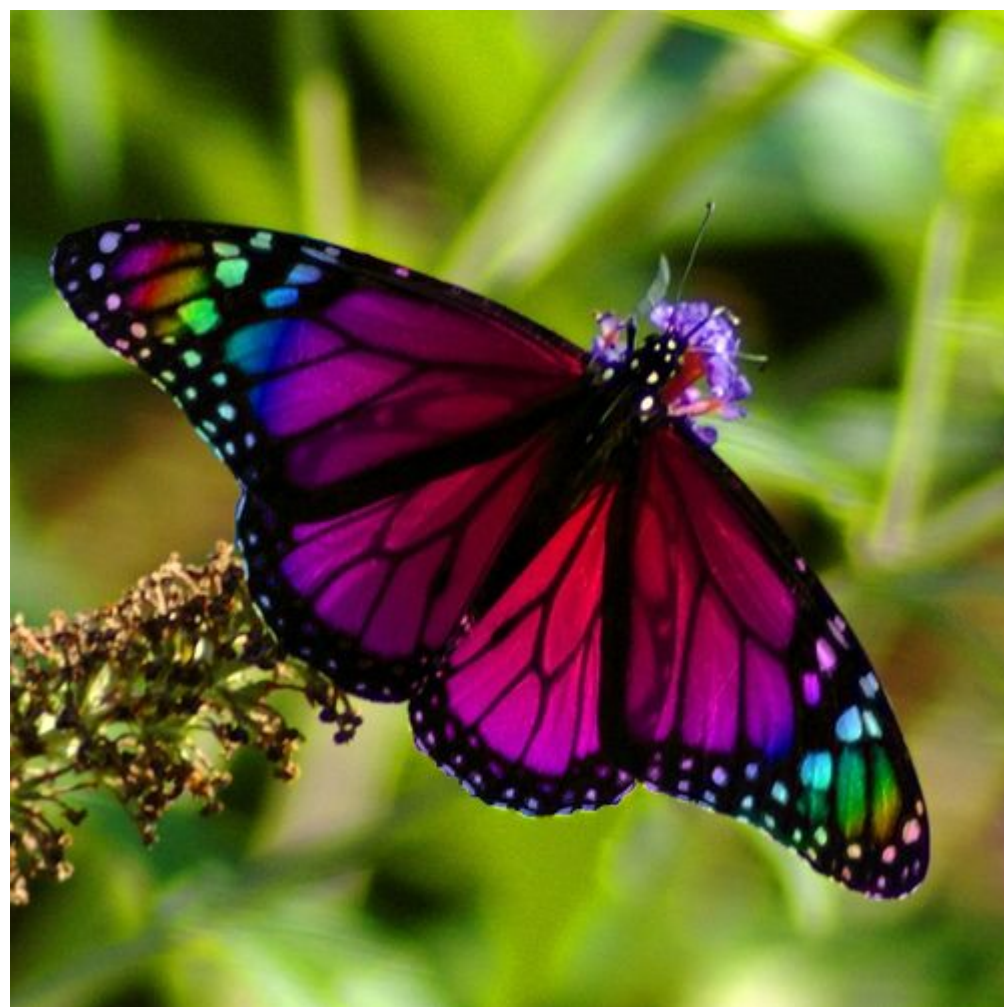
Sight Word

BINGO - "Find like"



e to
ject

Science - Life Cycles



Where do Butterflies Come From?

Social Studies: Where does milk come from?

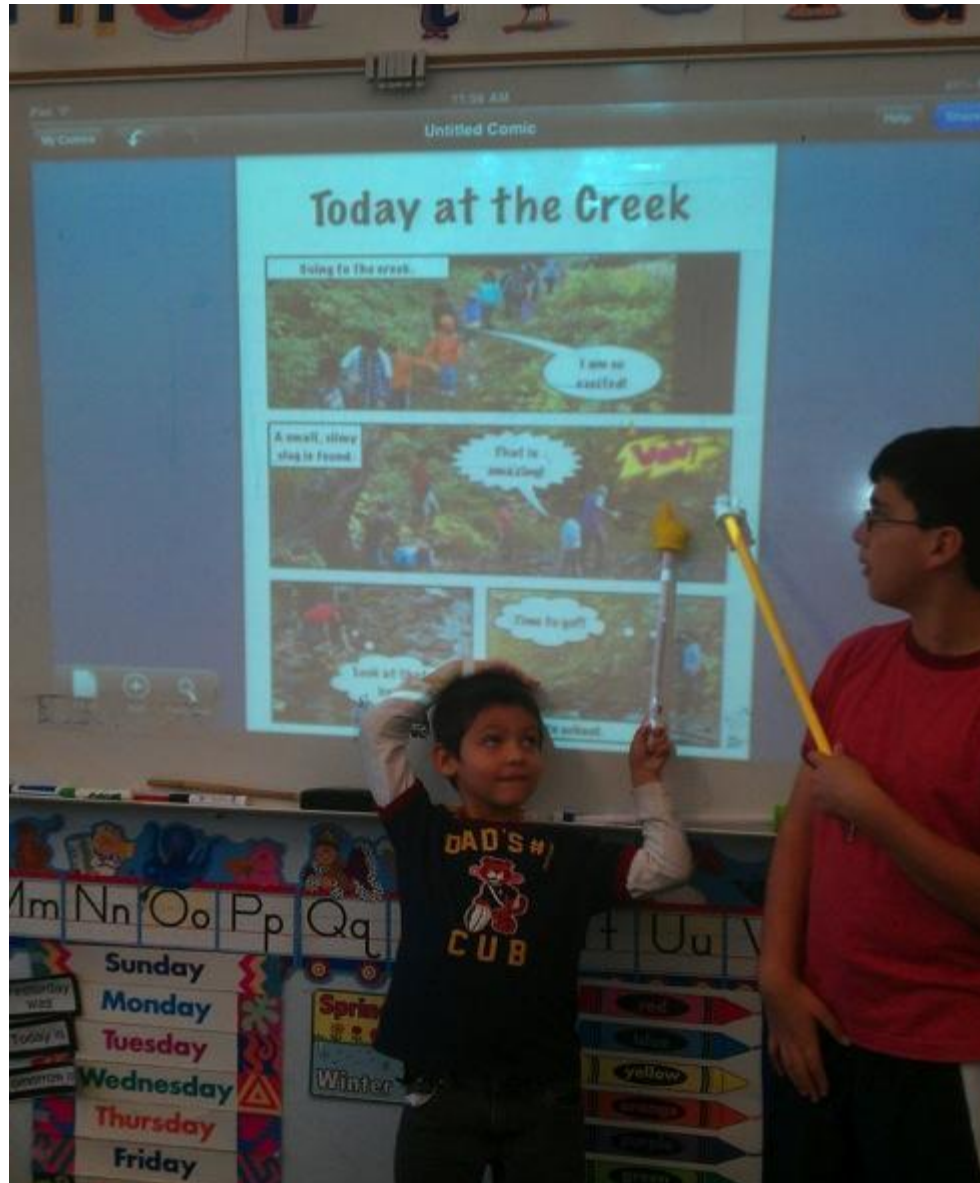


Where does milk come from?

Whole-class instruction



Communication





Side by Side



Differentiated Instruction



Focus Year 2

Expressive Language

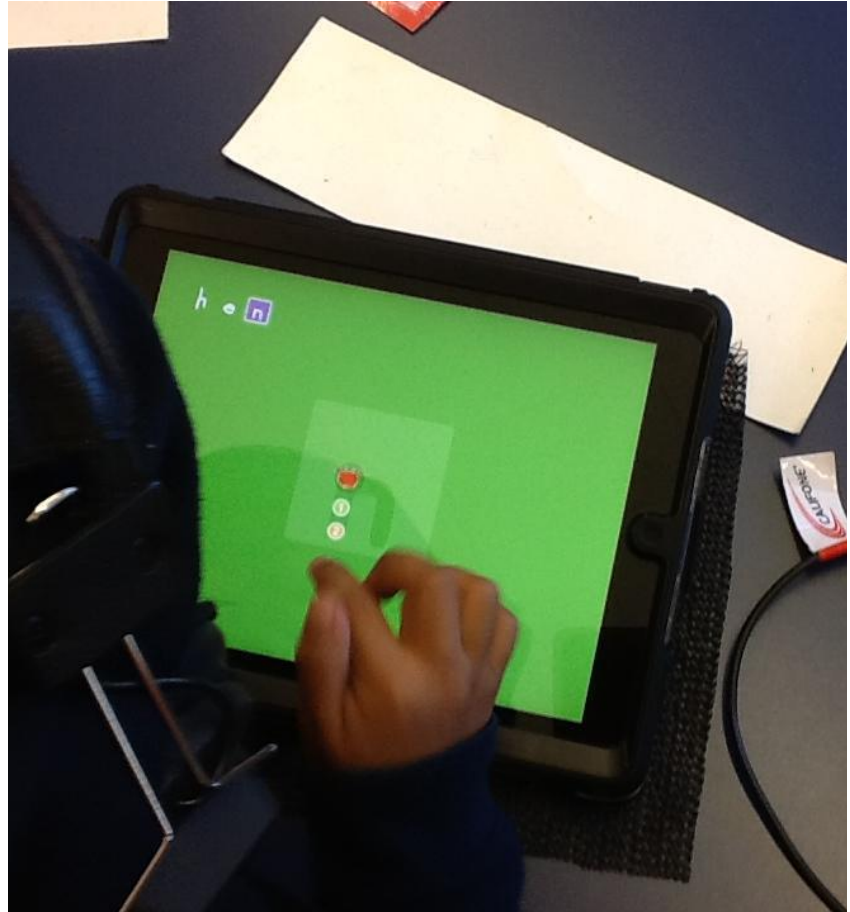


iWriteWord

S



- Upper and lower case letter, number, and word writing practice.
- Directionality enforced



Our Favorite Storytelling Tools



StoryBuddy



Photos



Drawing Pad



Strip Design

Comic Strips



Strip Design

- Visual storytelling
- Theme projects
- Compilations

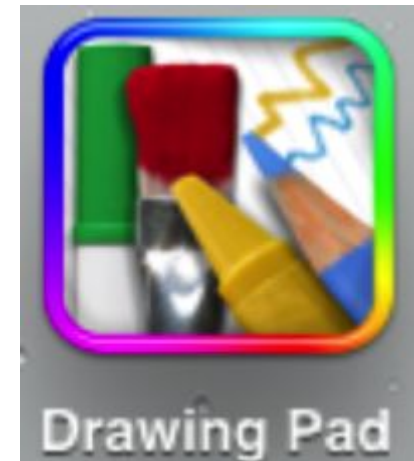


To Make a Comic Strip

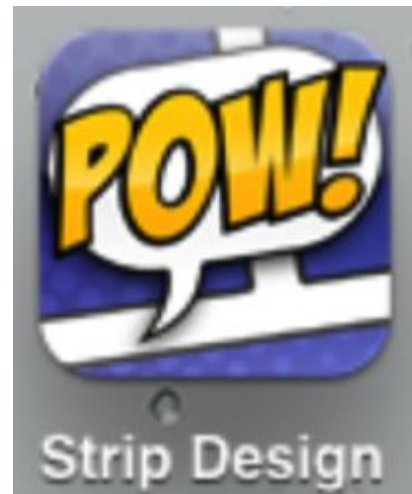
iPad Camera: take a picture



Drawing Pad: Draw a Picture



Create a Comic



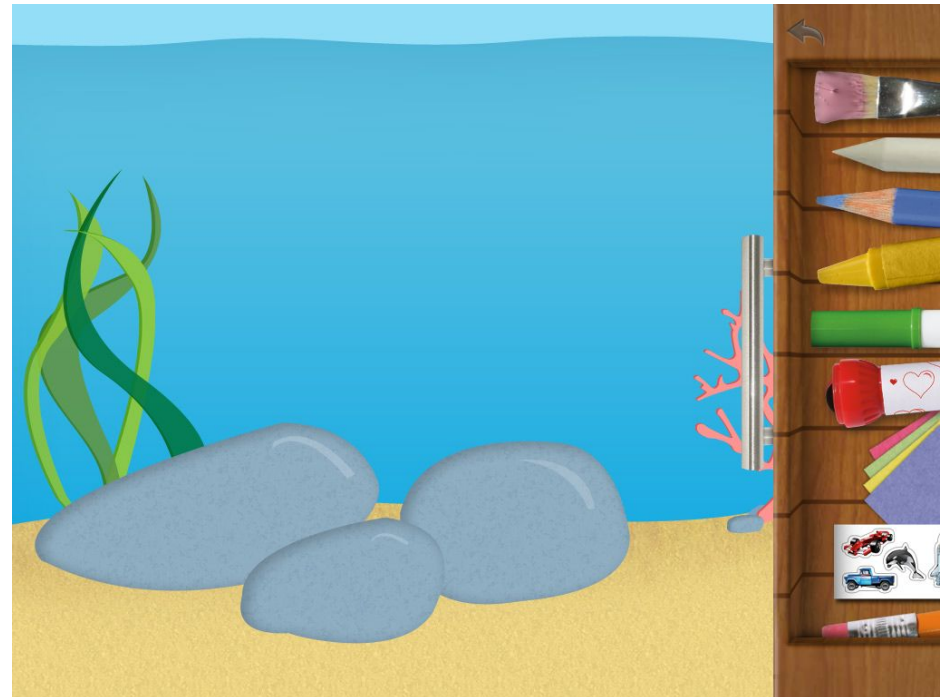
Using *Strip Design* App



Drawing Pad



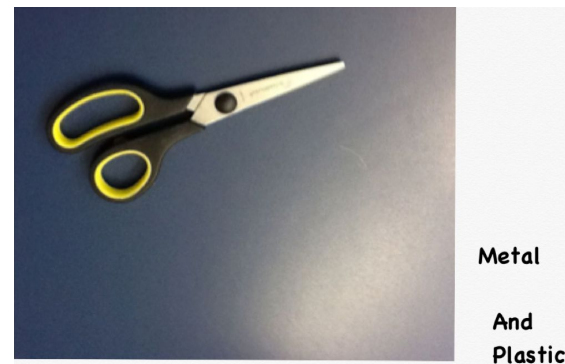
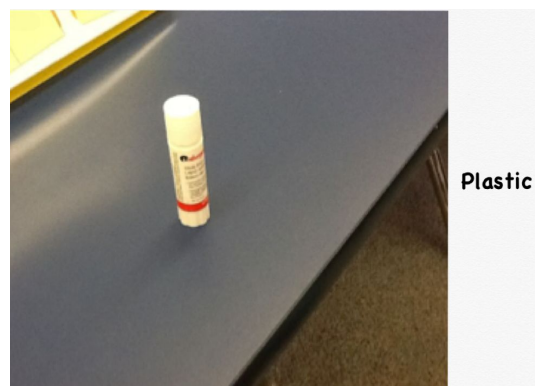
Responding to Literature





Science book of Matter

Made in Story
Buddy 2





Kids Learning to Read - Little F Letter Words

GrasshopperApps.com

Education
★★★★☆ (81)

UPDATE

Details Ratings and Reviews Related



Learn by sight, sound & touch
A fun & simple new way to learn how to read



Endorsed by parents & teachers
Turn "Tile Magnet" ON or OFF from settings page

Description

Some of the
best apps are
even FREE!



GrasshopperApp Sight Words

Description

★★★★★ Amazing - f
Approved by parents, t

Help your child learn to
...

+ FREE

Category: Education

What's New in Version

Free App!

NEVER MISS DEALS!

NOW AVAILABLE
IN THE APP STORE





Project-
Based Learning

Buddies





Individual Student Performance

Teacher Apps

- Dropbox



- Drive

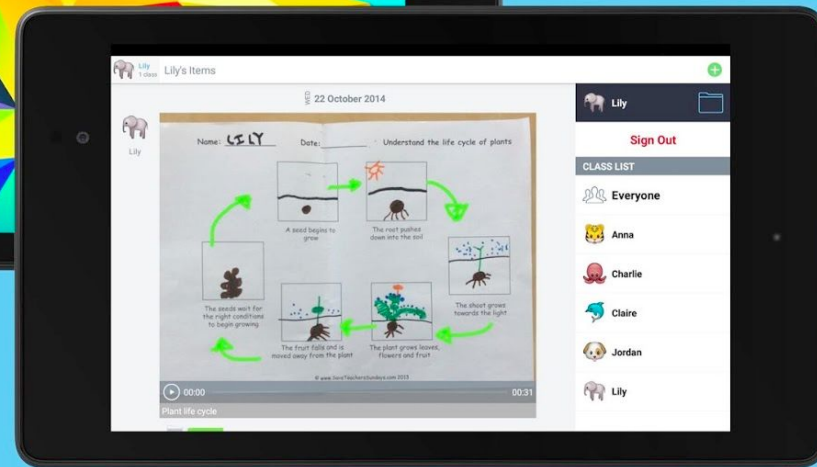
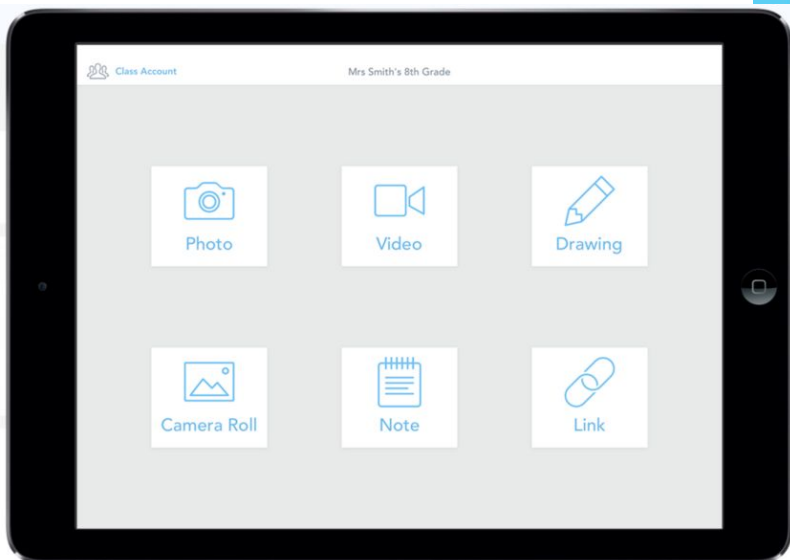
File storage & sharing



Student Driven Digital Portfolios Introduction for Teachers



Invite parents to send them real time updates
about their child's learning



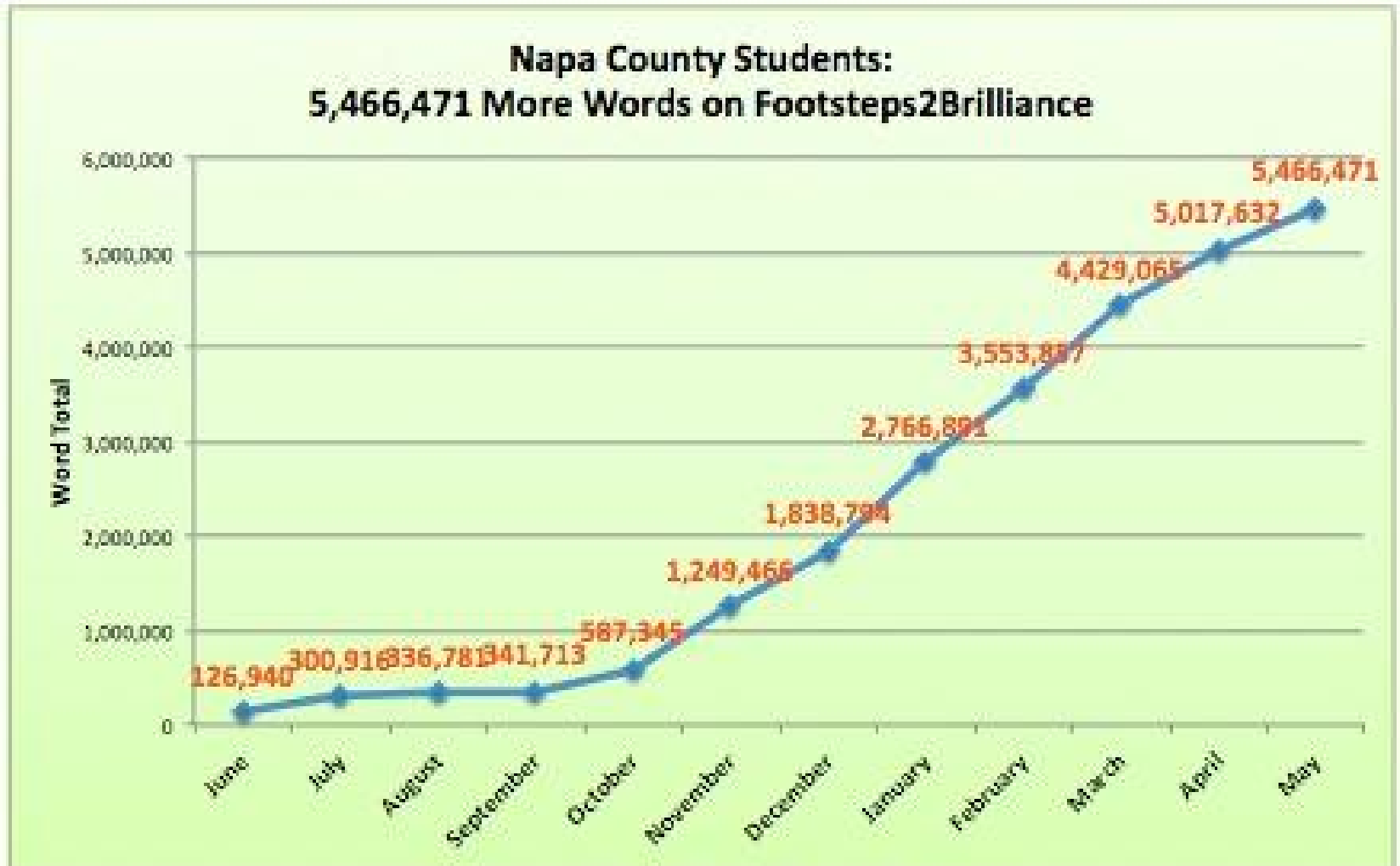
<http://web.seesaw.me/>

Years 3 & 4

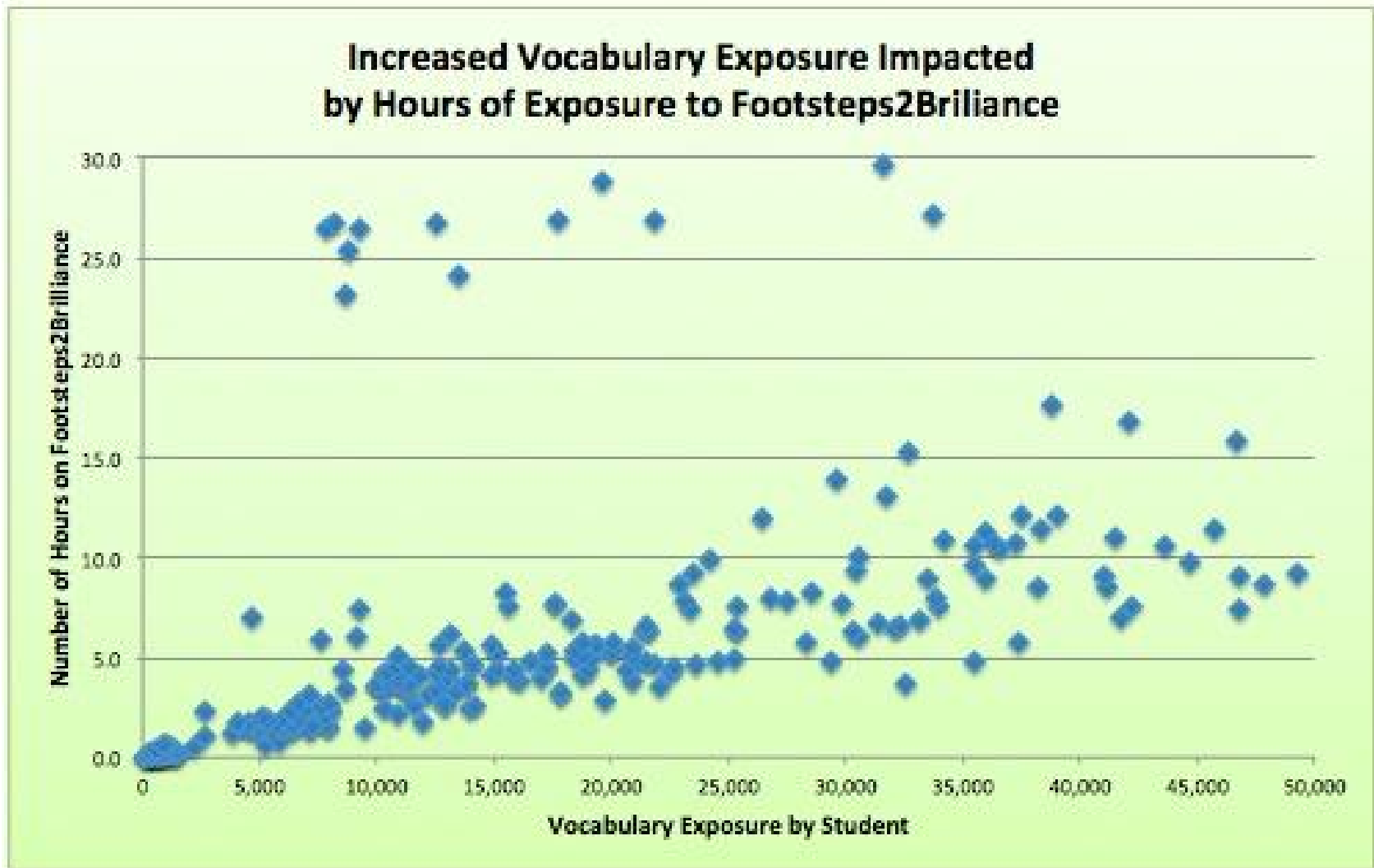
Did the intervention help close the gap?



F2B 5.4+ Million More Words

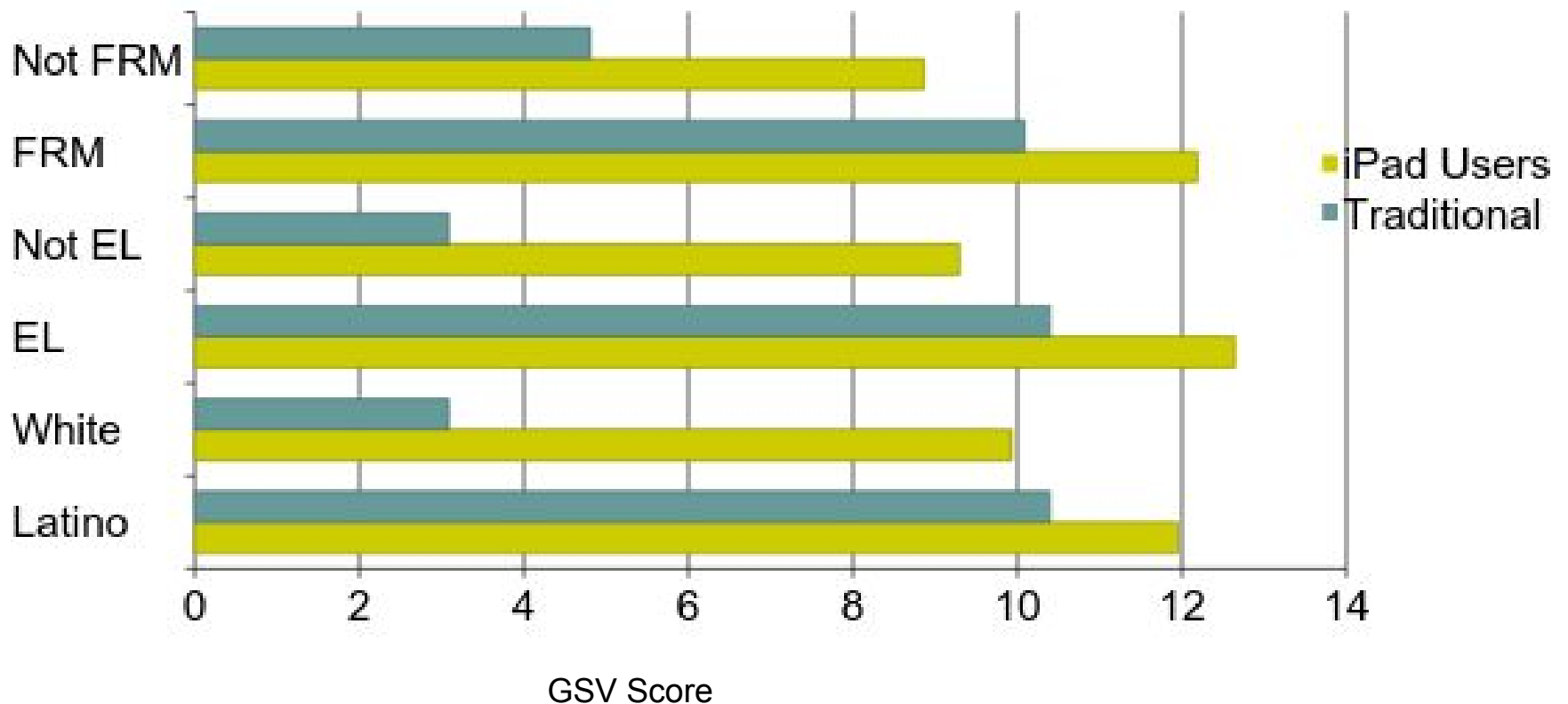


F2B Increased Vocabulary



Year 1: Growth in Scores by Demographics

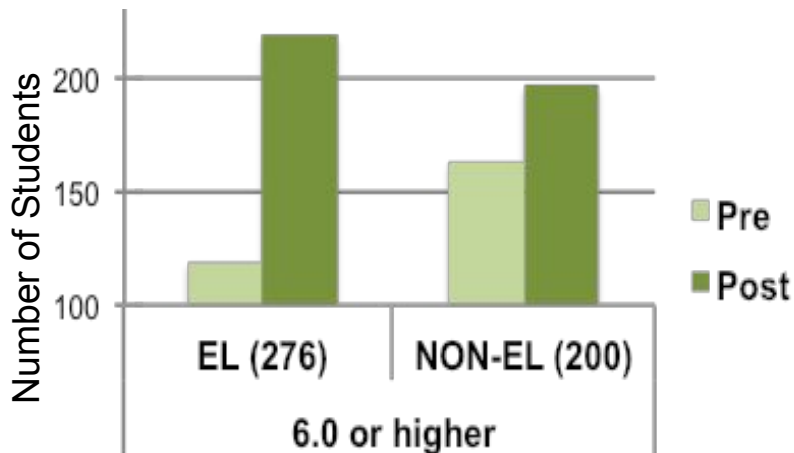
- Student Growth in Mean GSV Scores by Ethnicity, Language and Eligibility for Free and Reduced Meals



Year 2: End of Kinder Increase in Vocabulary

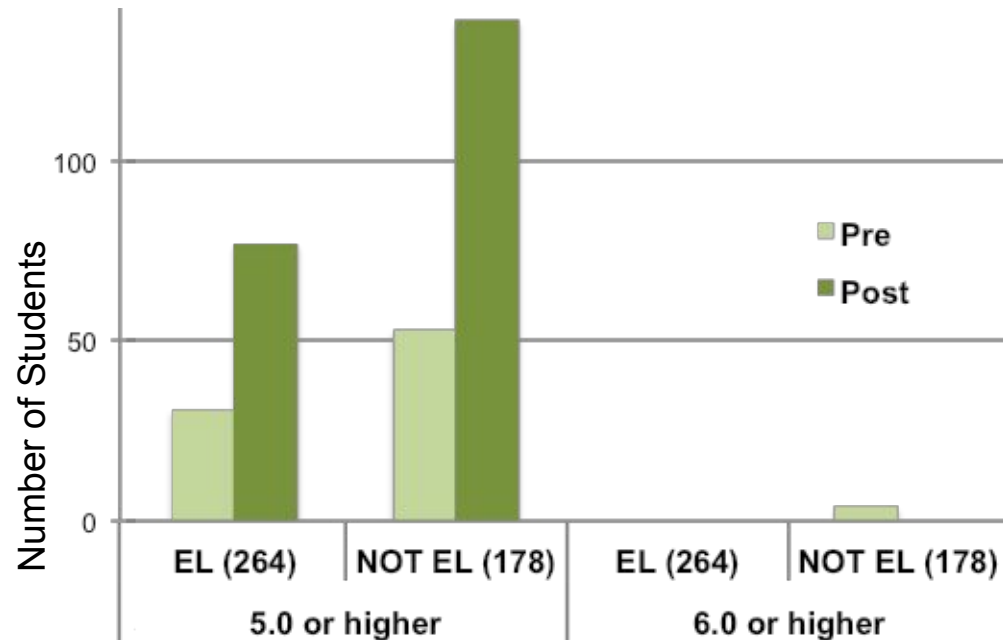
Receptive - PPVT

- Age Equivalency of 6 years or higher
 - 79% of EL Students
 - 98% of Non-EL students
 - # of ELs at this level nearly doubled; # of EOs grew ~16%



Expressive - EVT

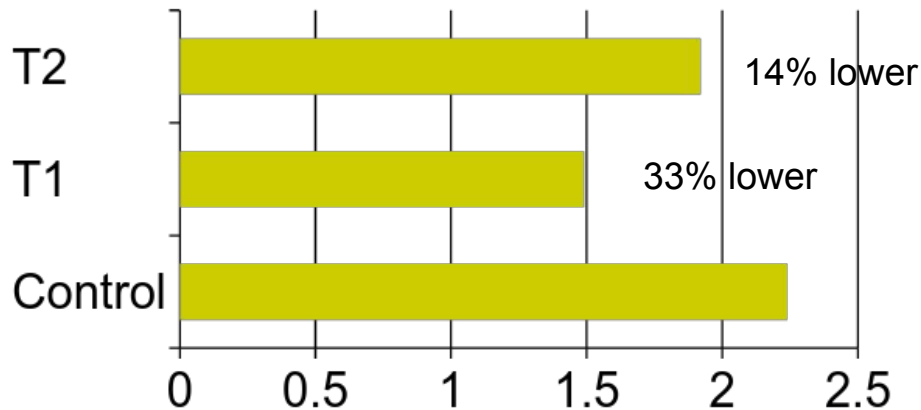
- Age Equivalency of 6 years or higher <1%
- Age Equivalency of 5 grew by 250% from the pre-test



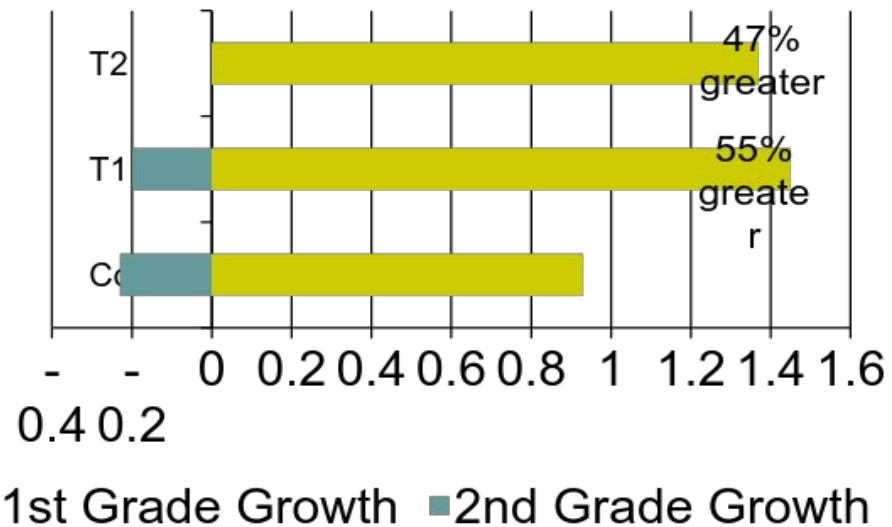
Years 3-4: CELDT Analysis

- **California English Language Development Test**
 - Given at the BEGINNING of each year

Kindergarten Baseline Data

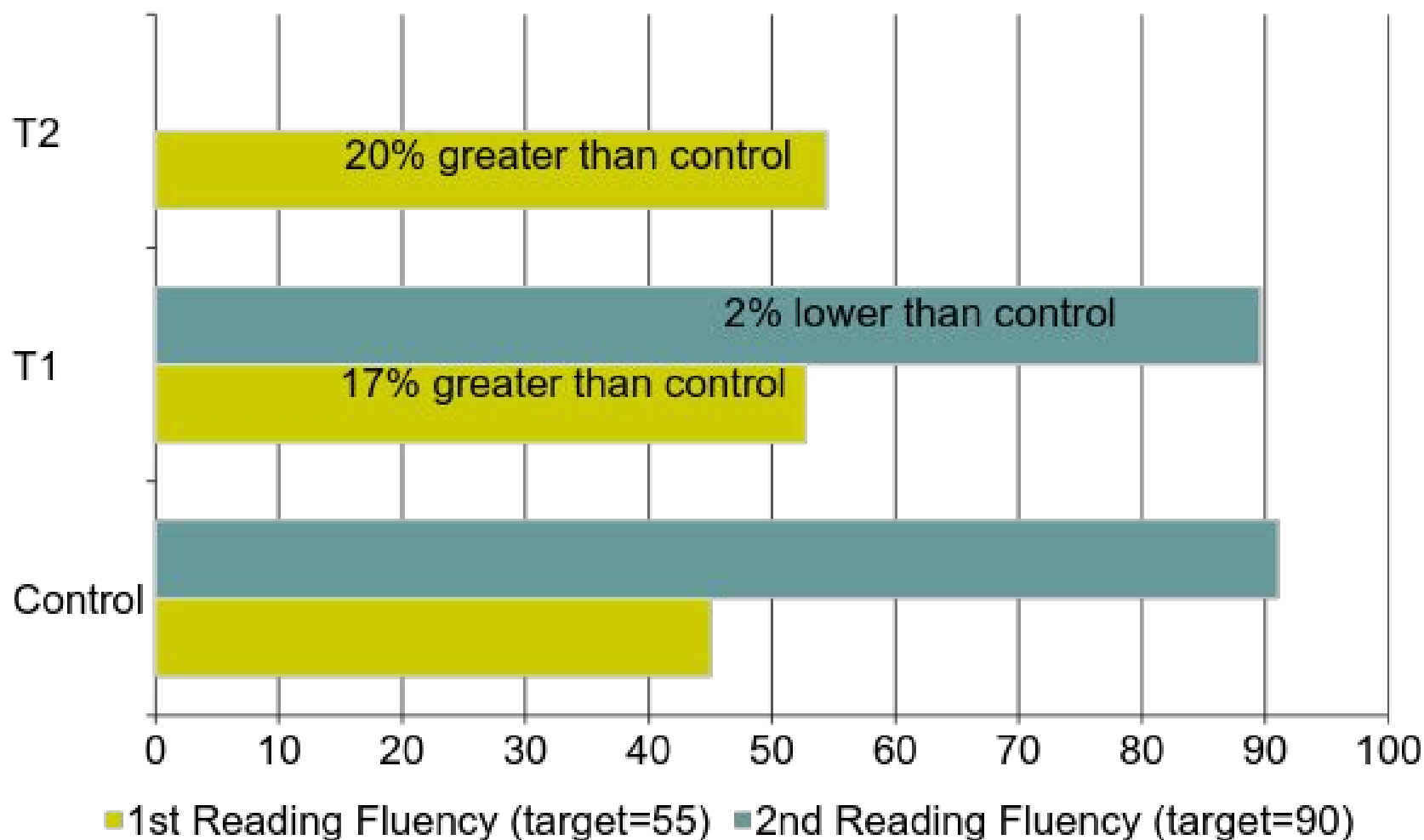


Growth in 1st & 2nd Grades



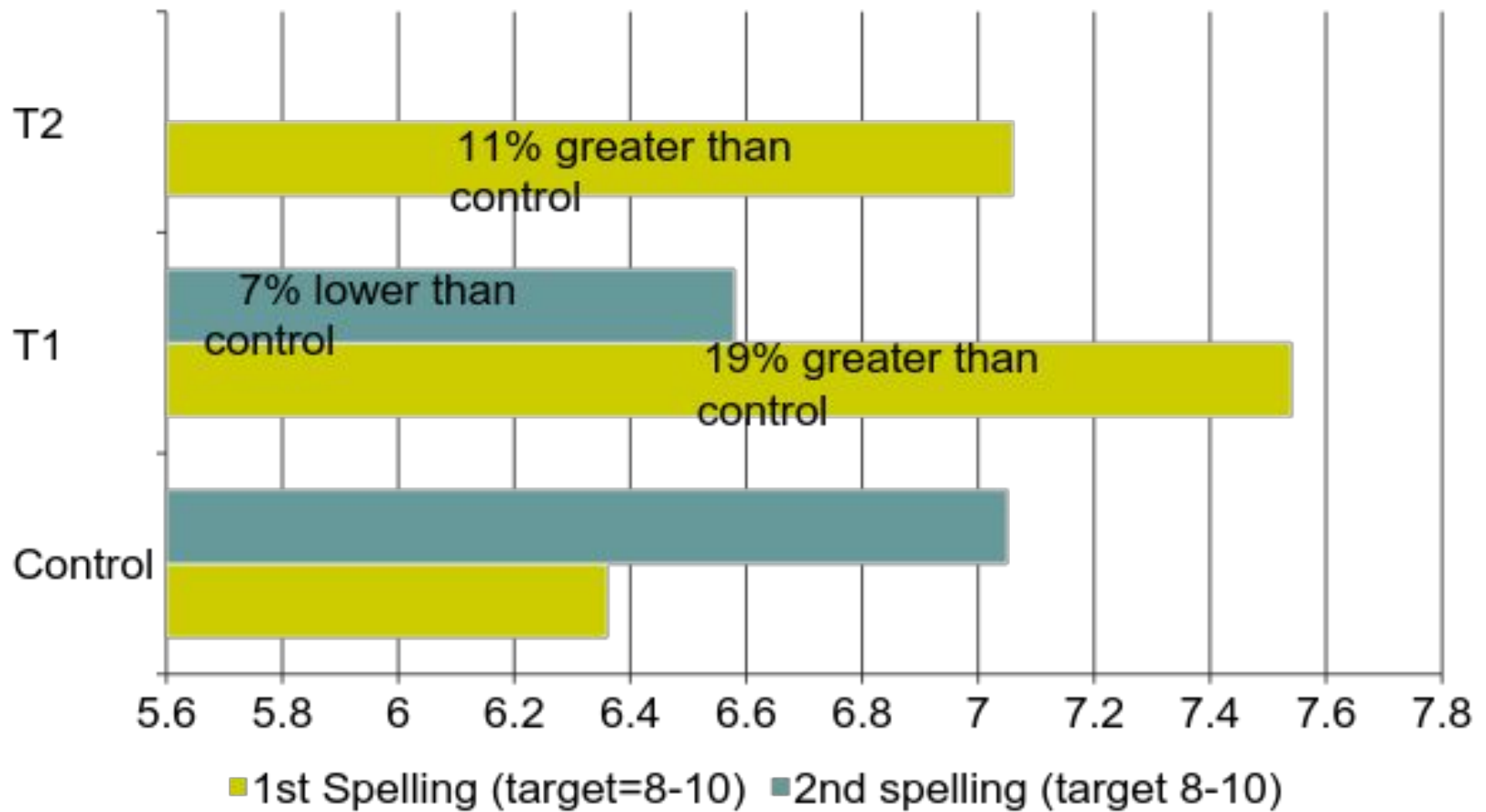
Years 3-4

Literacy Test Results – Reading



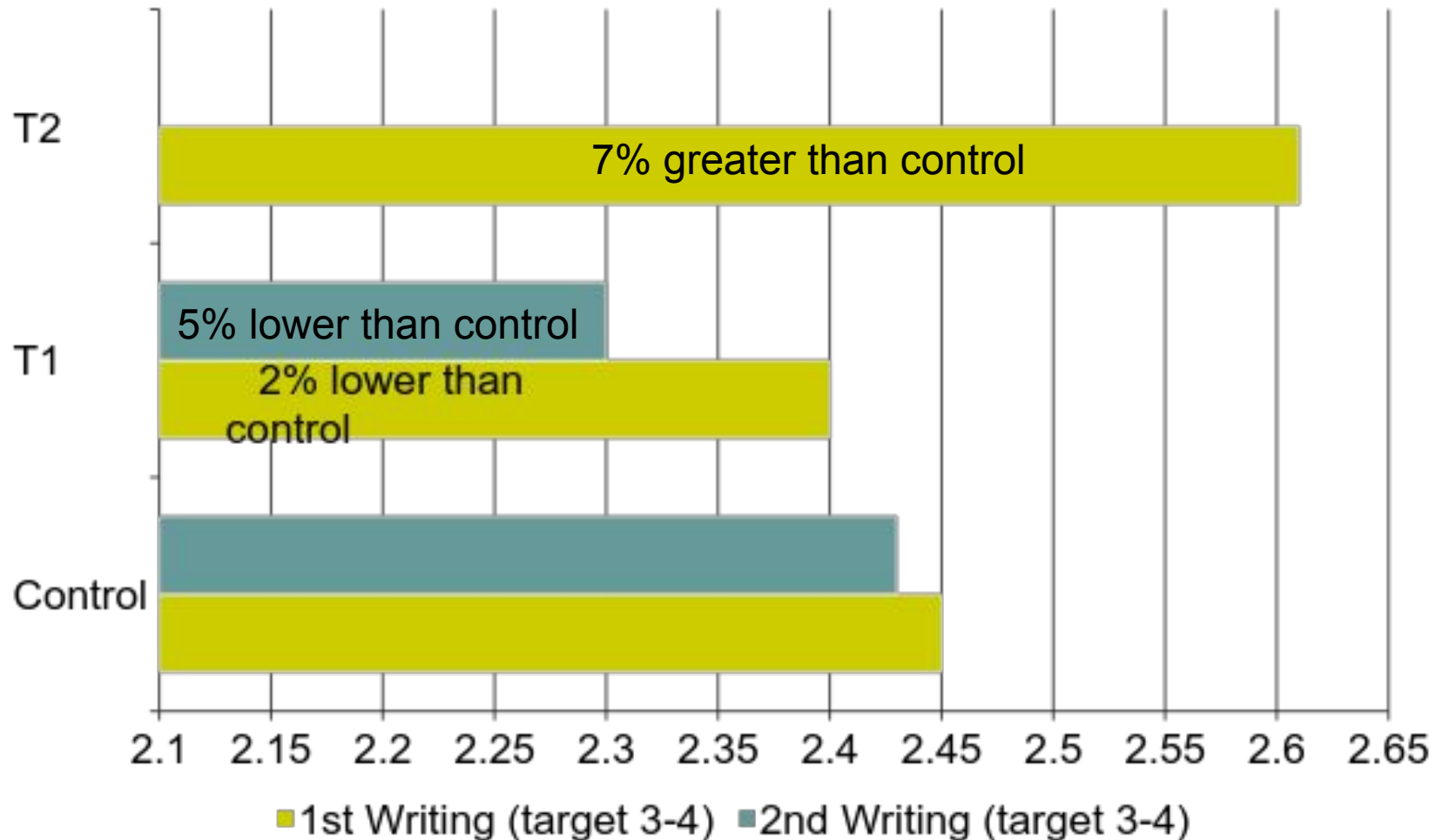
Years 3-4

Literacy Test Results - Spelling



Years 3-4

Literacy Test Results - Writing



Overall Conclusions

- Sustained use of iPads with appropriate literacy apps and teacher focus have a significant effect on student learning
- EL Students demonstrate accelerated growth in language and literacy skills
- It may be extrapolated that with longitudinal use, ELs and students with impoverished vocabulary may be able to “catch up”
- Shared iPads (1:2) have the same or greater impact on student performance
- Technology infusion accelerates competency in 4Cs and Common Core standards and assessments

NCOE Footsteps2Brilliance Literacy App

- NL, NCOE co-funded \$50,000 perpetual license for all Napa County preschoolers
- Used in all 23 NCOE preschool classes
- Parent workshops provided in schools and other venues (low-cost housing, library, and family centers)
- Since February 2014:
 - Total unique users: 1,374
 - Number of books opened: 53,096
 - Number of vocabulary words experienced: 15,178,549
 - Number of hours using the app: 4447
- Looking for funding for longitudinal study to follow preschool students through 2nd grade

Key Statistical Findings Years 1 & 2

- The iPad treatment had a significant effect on students' receptive language as measured by the PPVT
 $F(1, 207)=7.83, p<.05$
- There was a significant correlation between FRM (poverty) status and the positive effect of the treatment.
 $F(1,191) =8.12, p< .05$
- The control group mean was higher on the Peabody Picture Vocabulary Test (PPVT) pre GSV, but the treatment group mean was higher on the post GSV.
- On a test of between subject effects, only the EL factor was found to have significant effect size relative to the change in PPVT GSV $F(1,208)=4.251 \quad p=<.05$

Footsteps2Brilliance Free Trial

- <http://www.footsteps2brilliance.com/trial/>



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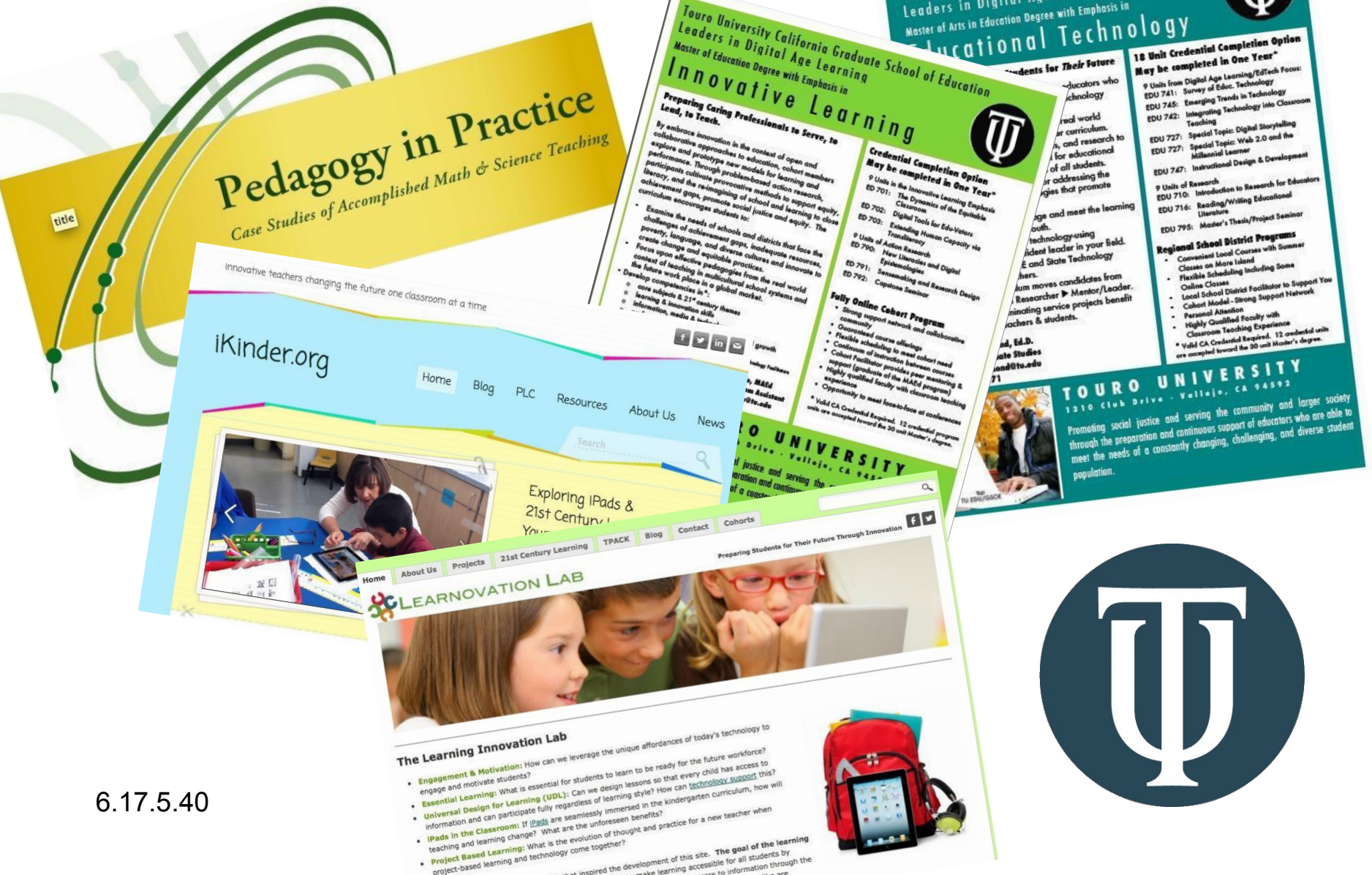
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DEVELOPMENT

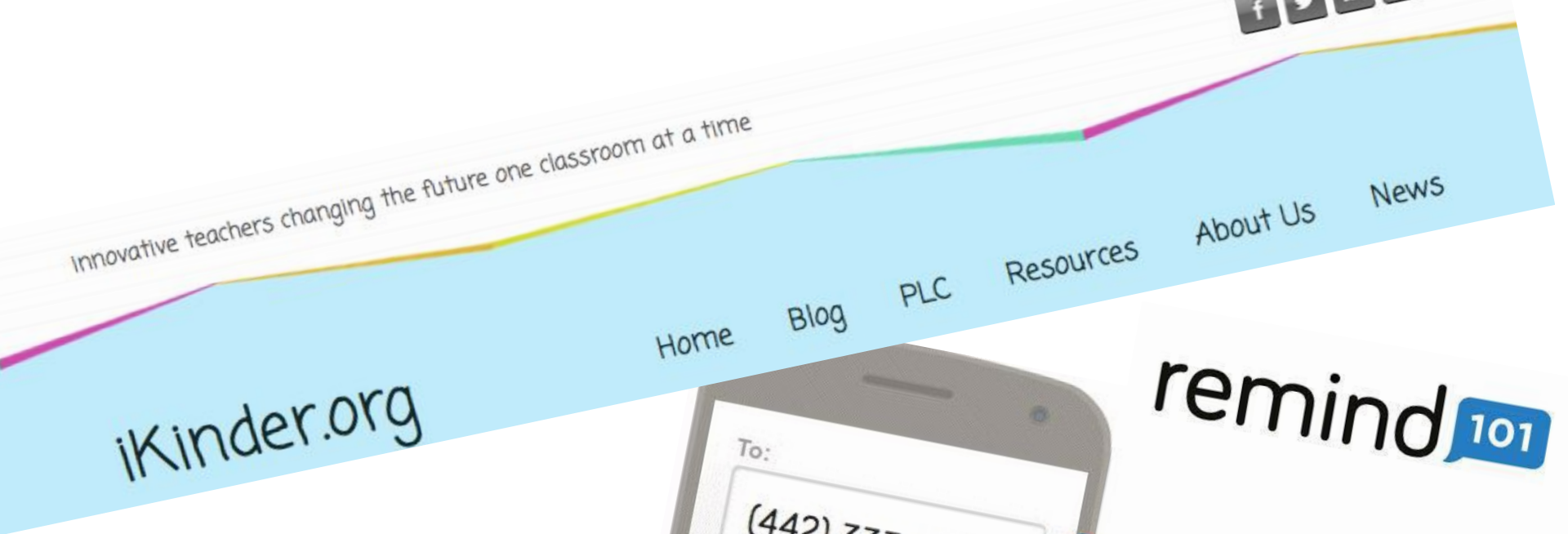
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Pamela Redmond ~ Touro University



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