



# UNITED INDEPENDENT SCHOOL DISTRICT INFORMATIONAL ITEM

TOPIC:

iPad Research Findings

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OF: Curriculum & Instruction

APPROVED FOR TRANSMITTAL TO SCHOOL BOARD: \_\_\_\_\_

DATE ASSIGNED FOR BOARD CONSIDERATION: \_\_\_\_\_

## INFORMATIONAL REPORT:

Presentation of research findings regarding the use of iPads in Curriculum, Instruction, and Administration.

# iPad Revolution

May 8, 2012

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*"If we teach today's student's as we taught yesterday's students,  
we rob them of tomorrow."*

--John Dewey  
1859 - 1952



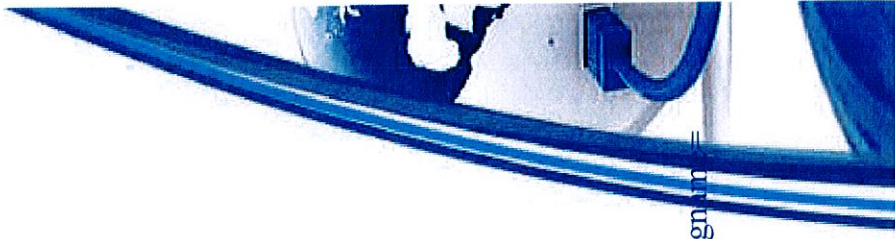
# Current Research

“Because this technology is so new there is a lack of published research available regarding the iPads impact on student learning, however ‘anecdotal evidence exists of the iPad’s ability to engage student’s with learning.’”

--iPads in Education

iPad 1	April 3, 2010
iPad 2	March 11, 2011
iPad 3	March 7, 2012

[http://www.diigo.com/bookmark/https%3A%2F%2Fsites.google.com%2Fsite%2Fedtc6433group10%2Fhome%2Fresources?group=i\\_pad-research-steering-committee](http://www.diigo.com/bookmark/https%3A%2F%2Fsites.google.com%2Fsite%2Fedtc6433group10%2Fhome%2Fresources?group=i_pad-research-steering-committee)



# Why iPad?

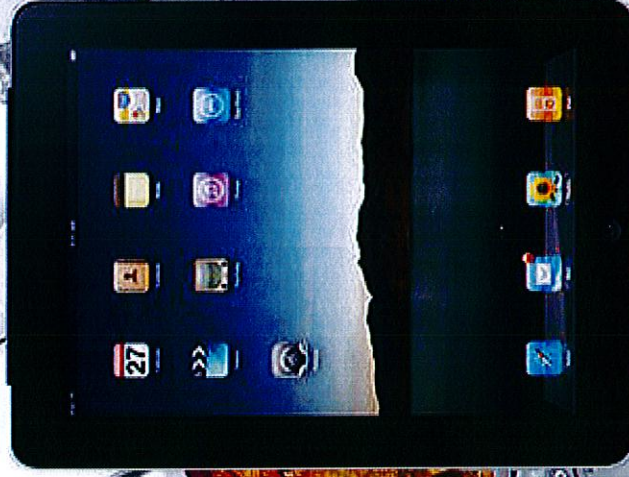


**Document Camera**

**Scanner  
(CamScanner Free)**



**Camera  
(included)**



**iCalendar**

**E-reader (iBooks)**

**Media player (iTunes)**

**Whiteboard  
(AirSketch  
\$9.99 T only)**

**Video camera  
(included)**



**Webcam**

**Student response  
system  
(Free Socrative App)**

**Personal learning device**

**It's a Leatherman!!!**

# Comparison of iPad 2 and Kindle Fire

## iPad

- Display: 9.7" (diagonal)
- Battery Life – 10 Hours
- Storage Capacity
  - 16GB
  - 32GB
  - 64GB
- Photo & Video Capture
  - Yes
- eBooks
  - iBook Store
  - Amazon Kindle Store
- Free - Educational Resource Library App
  - iTunesU
  - Khan Academy
  - Lectures & Presentations
  - K-12 and University Courses
  - Research Information
  - Educational Conferences
- Applications: Over 140,000
  - Educational Apps: Over 20,000

## Kindle Fire

- Display: 7" (diagonal)
- Battery Life – 8 hours
- Storage Capacity
  - 8GB total with 6.5GB for storage
- Photo & Video Capture
  - No
- eBooks
  - Amazon Kindle Store
- Free Educational Resource Library App
  - iTunesU not available for Kindle
- Applications: 35,657 as of 4-19-12
  - Educational Apps: 2,339 as of 4-19-12



# Instructional Objectives

- 21<sup>st</sup> Century Skills
- Differentiation of instruction
  - Response to intervention
- Content enhancement
- Presentation skills
- Testing/Assessment
- Flexible, adaptable, individualized curriculum



# Some popular applications that have been classified using Bloom's Taxonomy

## Bloom's Taxonomy for iPads

<b>Creating</b>	Audioboo iMovie ComicBook! ReelDirector SonicPics Animoto Puppet Pals Toontastic DoInk Doink
<b>Evaluating</b>	HootSuite Skype Mobile RSS Science 360 zite FlipBoard Instapaper Goodreads Wunderlist
<b>Analyzing</b>	iThoughts HD Lino Popplet Today's Documents Diigo Explain Everything 3D Cell Simulation GoDocs GoSky Watch
<b>Applying</b>	ShowMe Poetry Creator Keynote Visualize Posterous ZigZag Board Presentation Link Xperia GearHD
<b>Understanding</b>	ScreenChomp Motion Math Charts Idea Sketch Corkulous Blogsy Good Reader Touch Draw Pages
<b>Remembering</b>	iBook Noteshelf Stack the Countries Evernote Peak NxtApp 4Kids Ansel & Clair's Adventure Word Seek HD eClicker Globe

Silvia Rosenthal Tolisano - GloballyConnectedLearning.com - adapted from Kathy Schrock's Blooming iPad

Source: <http://langwitches.org/blog/2011/08/21/blooms-taxonomy-and-ipad-apps/>

# Deployment Models

Bastrop – 200 iPads on Bretford Sync Carts, 1 cart per department. Last year targeted 9<sup>th</sup> and 10<sup>th</sup> grade and this year added 11<sup>th</sup> grade. Elementary schools have iPads that they've purchased through grants.

Eanes – 1:1 Initiative deployed to all Juniors and Seniors, with sophomores and freshmen to be added next.

El Paso – Beginning stages of pilot; purchased 7200 iPads to use with 20,000 At-risk students

Laredo ISD – 200 teachers in Pilot. 100 secondary/100 elementary; 2 carts for 8<sup>th</sup> grade Science. Plans are to have 1:1 iPad implementation in middle school and 1:1 laptop implementation in high school.

McAllen – Biggest 1:1 deployment in the nation. Currently has 5600 devices deployed in February, 2012, into 15 different schools at different grade levels. By September 2012, every student and professional will have an iPad.

Northside – 110 teachers and C&I staff in pilot; each attended a 2-hour training session. Will determine 2<sup>nd</sup> pilot for deployment of class sets of iPads in grade levels to be determined.

Socorro – 320 students and 6 teachers; Algebra pilot in 6 high schools, 2 teachers per campus; class sets of carts.

South San – Purchased 110 iPads; 6 iPads per classroom—1 for T use and 5 for students to use (in groups) for 8<sup>th</sup> grade Algebra.





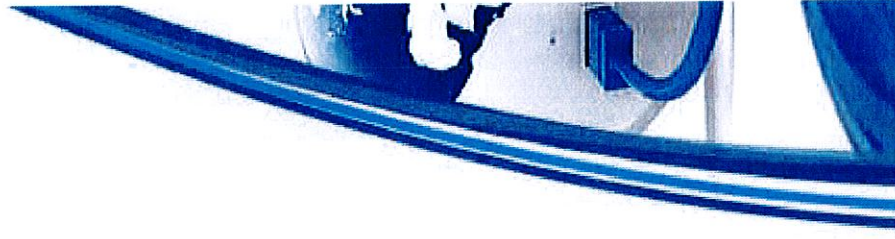
# McAllen ISD

Biggest deployment of 1:1 iPads in the NATION.

- 5600 devices deployed in February (2012) into 15 different schools at different grade levels.
- Purchased iPad 2 with 16 gigabytes and budgeted \$50 per iPad for apps
- Teachers received the devices first.
- Every professional will have an iPad in their hands
- By September or October of 2012, every student will have an iPad.
- K-3rd got Ipods, but we will get them iPads, too.

Population:	25,490
Hispanic:	92.5%
ED:	64.9%
ELP	27.4%
At-risk	63.8%

Source: AEIS 2010-11



# Northside ISD

- Currently completing the first pilot study with C&I and some campus administrators (90 day pilot to analyze productivity and instructional applications).
- 110 people in pilot and each attended a 2 hour training when issued iPad (training on how to use iPad)
- Will review pilot results to determine implementation for next year at a few campuses
- C&I department is identifying campuses at each level to include in second pilot to determine how they will implement
- There will be a class set in each of the pilot teachers classrooms at specific grade levels at selected schools
- Recommended some apps but left it open for exploration
- Documents submitted:
  - List of recommended Apps
  - Completed Surveys
  - AUPs
- Contact: Elizabeth Langer, Director of Technology Training & Dev.

Currently completing 90-day pilot with 110 staff members from C&I and some campus administrators

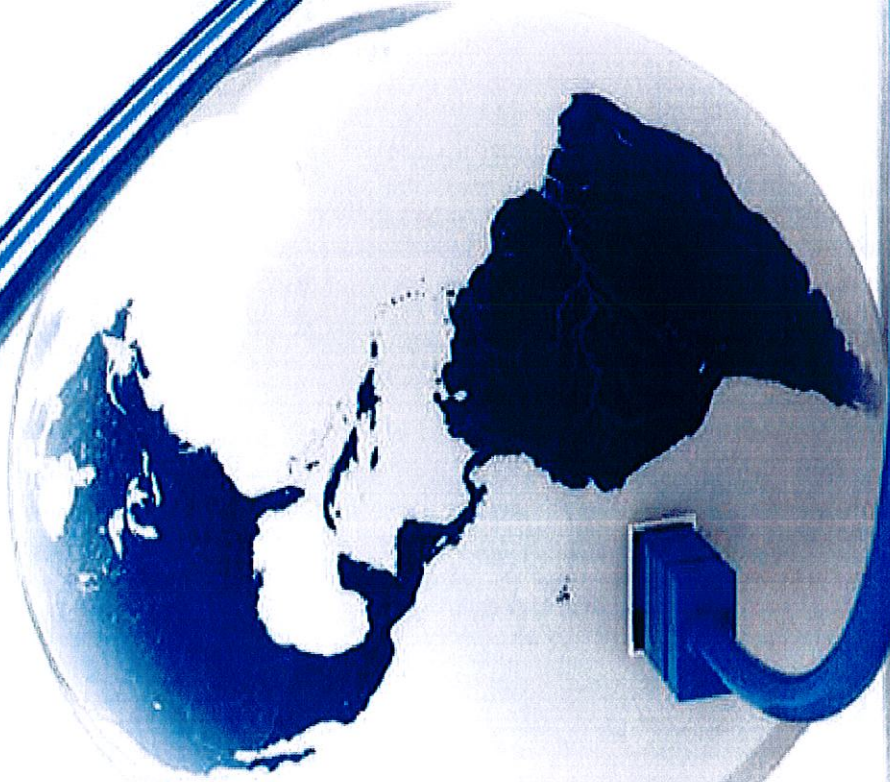
Second pilot will be class sets in teacher classrooms at specific grade levels.

Students: 94,632  
Hispanic: 67.8%  
White: 20.1%  
E.D.: 52.5%  
LEP: 7.5%  
At-risk: 37.8%

Source: AEIS 2010-11



# iPads in LEP/SPED Classrooms



# iPads in the Classroom

- iPad Accessibility
  - Options built into the iPad settings:
    - Vision
    - Hearing
    - Physical & Motor Skills
- Assistive technology
  - Light weight
  - Portable
  - Easy to hold
  - Easy to interact
- Autism and Asperger
  - Video modeling
    - Instructional demonstrations
- Assessment – testing batteries, eSped, classroom observations, etc.

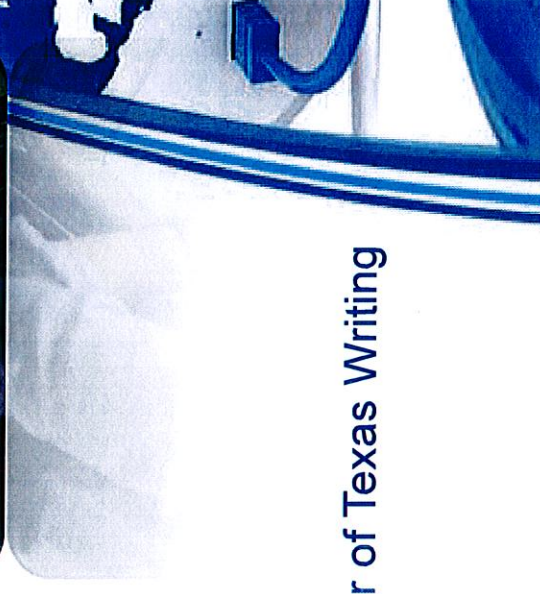
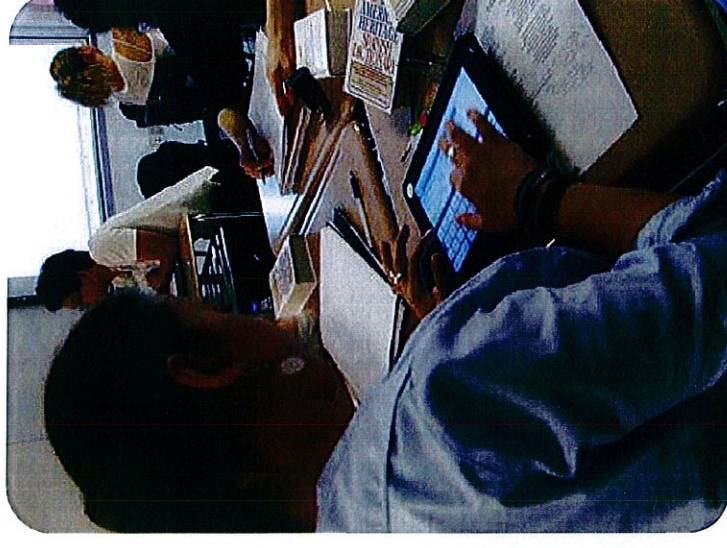


– Source: <http://www.sfweekly.com/2010-08-11/news/help-for-autism/3/>



# English Language Learners

- Comal ISD
  - Middle School
  - Help bridge the gap in test scores
  - Pilot with iPod Touch (130 units)
  - Progressed to iPads
    - Larger display and more functionality
      - Students #1 app: Dictionary to help translate
- Nikki Rowe High School, McAllen, TX
  - Federal Grant
    - Class set of 26 iPads for 40 students
- North Dallas High School
  - \$6 million grant to put iPads in ELL
    - 3 Class Sets
    - Support literacy instruction
      - Track approx. 400 Students



Source: Janelle Quintans Bence, teacher-consultant with North Star of Texas Writing Project

# iPADs in Administration



# iPad use in Administration

- Quick, access TEKS, Scope and Sequence, Lesson Plans, and ELP Strategies during teacher evaluations, eliminates carrying multiple binders.
- UISD Observation Form and PDAS Forms uploaded into the iPad so that everything can be completed in one visit.
- Administrators can email observations to the teacher and the school principal upon completion of the classroom visit.
- Access to web-based information when evaluating:
  - Access to TYLER
    - Student schedules, contact and emergency information, discipline and medical history, attendance history, student grades and progress reports, teacher schedules, reports
  - Access to DMAC
    - State Test Results, 3 T's, benchmark test results
- EDUPHORIA – web-based PDAS teacher evaluation system
  - Provides teachers with immediate feedback upon completion of their evaluation
  - Tracks completed number of walk-throughs per teacher, summarizes results by teacher and administrator. Principal can view number of walk-throughs each administrator has completed by day, week or month or indicated period of time.

Ernesto Salazar, UHS Vice-principal,  
Adriana Ramirez, Principal



# iPADs and Textbooks





## Electronic Instructional Materials

“Instructional material includes a book, supplementary materials, a combination of a book, workbook, and supplementary materials, computer software, magnetic media, DVD, CD-ROM, computer courseware, on-line services, or an electronic medium, or other means of conveying information to the student or otherwise contributing to the learning process **through electronic means**, including open-source instructional material” (Sec. 31.002)

<http://www.statutes.legis.state.tx.us/docs/ed/htm/ed.31.htm>

## Current UISD Adoptions for use with iPads

- BrainPop – An application that contains animated, curriculum-based content that engages students, supports educators, and bolsters achievement.
- Textbook Adoptions – Holt (MS Math), McDougal Littell (HS Math) ELA/Reading (MS & HS), Writing Coach App (MS & HS), StemScopes (ELEM & MS), Science Pearson OLE (HS)
  - PDF documents
  - Powerpoint Presentations



# Additional Considerations



# Principals & Curriculum & Instruction

	Qty	16GB iPad 2	16 GB iPad 3	32 GB iPad 3
C & I Instruction	59	\$27,022	\$32,922	\$38,822
Access Points for C&I	3	9,000	9,000	9,000
Principals	41	18,778	22,878	26,978
		\$54,800	\$64,800	\$74,800

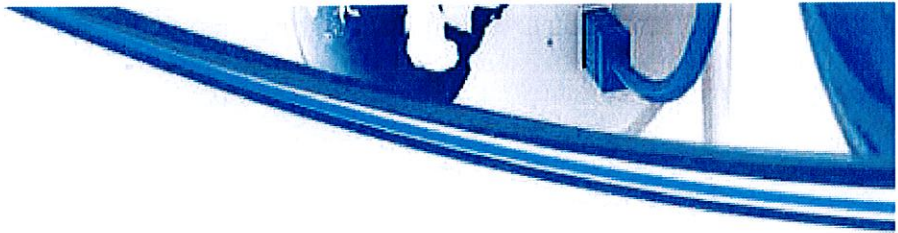
# Pilot Possibilities for Campuses

		iPad 2 16 GB	iPad 3 16 GB	iPad 3 32 GB
58 teachers	58 iPads	\$118,436	\$124,236	\$130,036
58 teachers	HS: 30 MS: 25 ES: 22	\$1,078,440	\$1,150,594	\$1,484,040
Class sets of iPads on a cart				
4 Algebra teachers per high school				
Two 8 <sup>th</sup> grade Science teachers per middle school				
Grades 1, 3, 5 in elementary; 2 elementary schools per feeder pattern.				
58 teachers & 1:1	HS: 1,920 MS: 1,800 ES: 528 58 Ts	\$2,486,758	\$2,915,232	\$3,397,894
Note: Price includes iPad and required peripherals based on configuration				



# Acceptable Use Policies

Name	Date modified	Type	Size
Eanes ISD	4/20/2012 3:29 PM	File folder	
BastropISD_AUP_11-12_English	4/20/2012 8:58 AM	Adobe Acrobat D...	970 KB
El_Paso_ISD_Technology_AUA	4/20/2012 9:07 AM	Adobe Acrobat D...	124 KB
LaSalle iPad User Agreement	4/20/2012 9:06 AM	Adobe Acrobat D...	153 KB
LodiISD_Employee_Technology_Use	4/20/2012 9:33 AM	Adobe Acrobat D...	52 KB
LodiISD_Student_Staff_Expectations	4/20/2012 9:37 AM	Adobe Acrobat D...	89 KB
LodiISD_Student_Use_of_Technology	4/20/2012 9:36 AM	Adobe Acrobat D...	62 KB
LodiISD_Technology_Use	4/20/2012 9:35 AM	Adobe Acrobat D...	240 KB
Northside_GKD(LOCAL)	4/20/2012 9:22 AM	Adobe Acrobat D...	58 KB
NorthsideISD_BBI(LOCAL)	4/20/2012 9:22 AM	Adobe Acrobat D...	35 KB
NorthsideISD_CQ(LOCAL)	4/20/2012 9:21 AM	Adobe Acrobat D...	46 KB
SAISD_19 Employee AUP and Internet Saf...	4/20/2012 9:34 AM	Adobe Acrobat D...	109 KB
YsletaISD_AUP	4/20/2012 10:53 AM	Adobe Acrobat D...	115 KB



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