

i21 Interactive Classroom
Year 4
4th Quarter

Proposition S Update July 2013



i21 Interactive Classroom Prop S Update



- SDUSD is the 2nd largest district in California
 - Approximately 133,182 students in pre-school through grade 12
 - 108 elementary schools, 9 K-8 schools, 24 traditional middle schools, 26 high schools, 44 charter schools, and 14 atypical/ alternative schools
 - Diverse student population more than 15 different ethnic groups speaking over 60 languages and dialects
 - Free / Reduced lunch 61.1%



i21 Interactive Classroom Prop S Update



The voter-approved bond mandates that we ...create 21st century learning environments...





Bond Initiative Prop S Update

... Provide up-to-date classroom and instructional technology required for 21st century student learning and teaching...

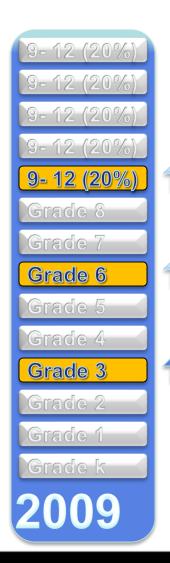
- Equip Classrooms
- Upgrade Technology
- Campus-Wide Wireless
- Network Upgrades



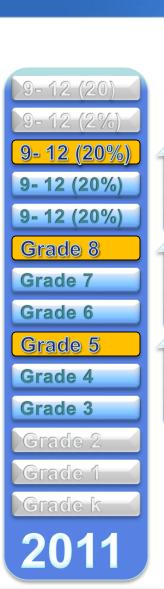


Changing the Learning Landscape i21 Initiative 5-Year Plan











9-12 (20%) 9-12 (20%) 9-12 (20%) 9-12 (20%) 9-12 (20%) **Grade 8** Grade 7 Grade 6 Grade 5 Grade 4 Grade 3 Grade 2 Grade 1 Grade K 2013

i21 GoalsProp S Update



- Transformation of the learning environment
 - Quality technology-based teaching and learning tools
- Shift in the model for delivering instruction
 - Engaging, student-centered classrooms
- Equitable learning opportunities for all students
 - Allow all students to become expert learners

Changing the Learning Landscape i21 Initiative

...It's an opportunity to change the way we do things based on new tools, resources, and focusing on 21st-century skills that students need to be able to survive in today's world...





i21 Interactive Classroom Prop S Update



i21 classroom initiative aligns with...

- U. S. Department of Ed. Technology Goals
- District 2020 Vision
- Goals for Students Achievement GSA2
- Board Goals
- LEA Plans Component



Goals for Student Achievement Prop S Update

- English Language Arts 2.3.1
- Math 2.3.2
- Science 2.3.3
- Social Studies 2.3.4
- Student will communicate in at least two languages 2.4
- Student explore, understand, and value fine arts 2.5
- Students will effectively use technology to access, communicate and apply knowledge and to foster creativity 2.6



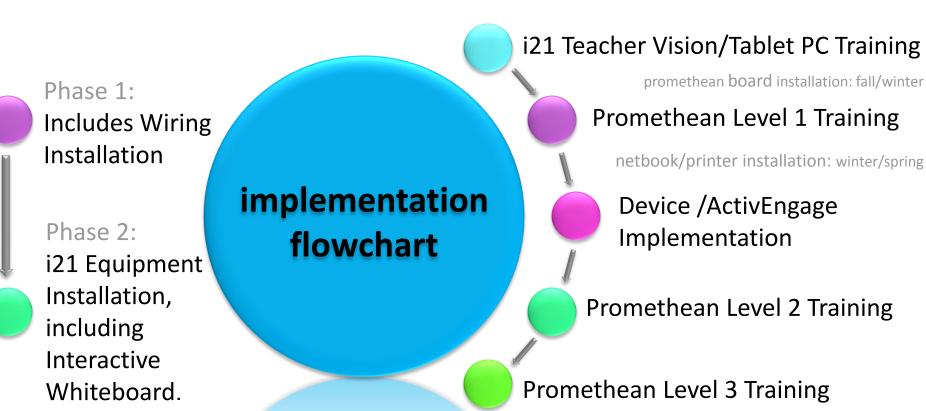


Year 4 Update



Physical Installation Sequence





i21 Interactive Classroom Update

Year 4 Implementation Totals Prop S Update

Promethean boards installed 897

Teacher tablets distributed 897

Student devices to be distributed **26,124**

Teachers trained:

classroom teachers plus

950

Special Ed support

Promethean Levels 1, 2 and 3

Approximately 80% of core curriculum classrooms to be completed in Y1, Y2, Y3 and Y4







Year 4 Implementation Prop S Update



- Year 4 student devices delivery will be postponed to the Fall of 2013 as a result of the student device purchases being shifted from Prop S to Prop Z. Prop Z bonds have just been sold.
- Training for student devices for Year 4 teachers will also be postponed until Fall 2013
 - Intro to iPad / Netbook 1:1 environment
 - Instructional Vision and Integration
 - Classroom Follow-up



Year 4 Implementation Prop S Update



Impact of delayed student device rollout on the i21 program:

- Impact on classroom implementation for teachers and students
- Impact on department staff
- Impact on professional development delivery model
- Impact on professional development budget

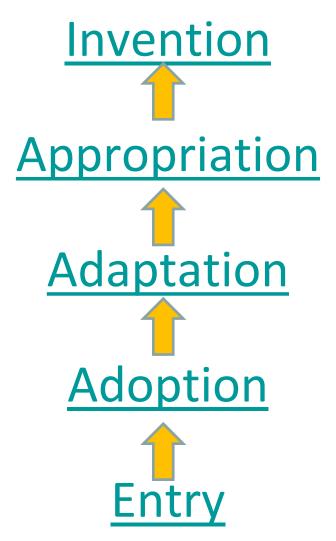


Changing the Learning Landscape i21 Professional Development



Evolution of Instruction Prop S Update



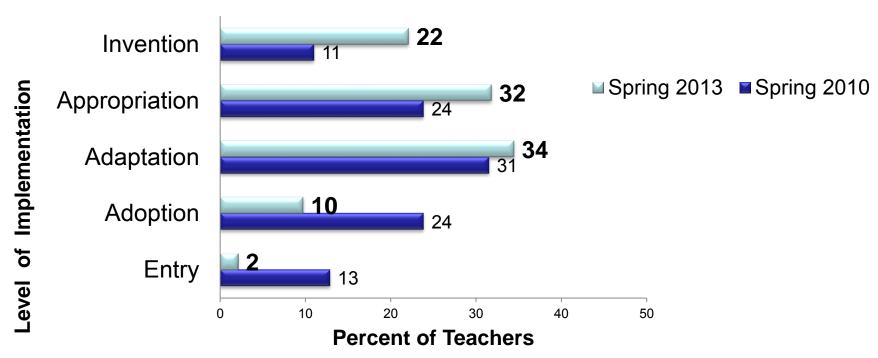




Continuing Growth - Y 1 Teachers Spring 2010 to 2013



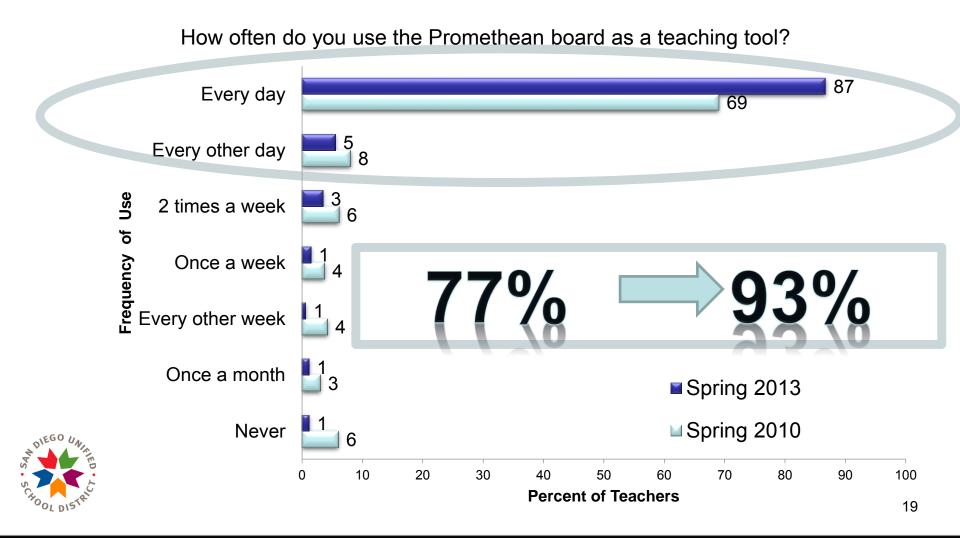
Evolution in Instruction





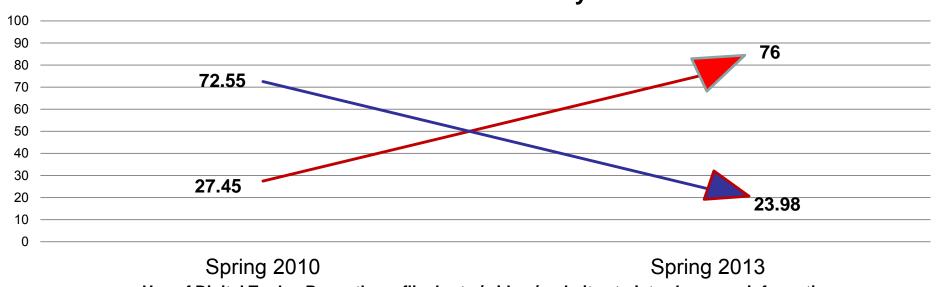
Continuing Growth - Y 1 Teachers Spring 2010 to 2013





Changing the Learning Landscape Year 1 Teachers – Spring 2013

Shift in Instructional Practice Year 1 Teachers Pre and Post Survey



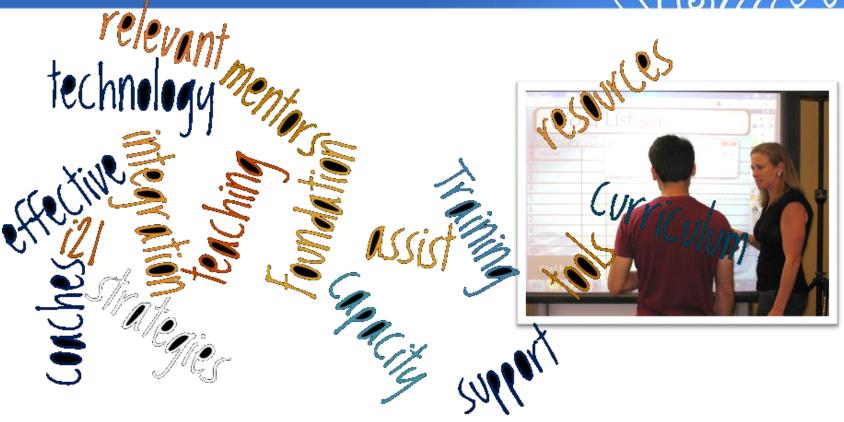
—Use of Digital Tools - Promethean flipcharts / video / websites to introduce new information

—Use of Lecture / notetaking / reading the textbook to introduce new information



Building Capacityi21 Digital Teacher Leaders





Key teachers who are academic leaders at their individual schools will serve as i21 Digital Teacher Leaders to build site capacity.

Building Site CapacityRole of i21 Digital Teacher Leaders

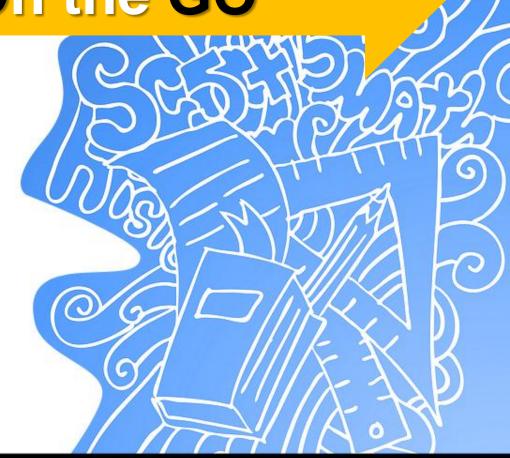
- Collaborate with i21 teachers and Ed Tech Resource Teachers
- Develop strategies to promote instructional use of i21 technology
- Function as an onsite resource for all other i21 teachers in their school.
- Be their site's information conduit for the latest technology updates, training on new software programs and other digital initiatives.
- Develop flipcharts to add to the district's curriculum warehouse.
- Work with the site administrators to identify further needs for training
- Attend monthly meetings/trainings with IT/Ed Tech Teams to receive the latest information or participate in advanced training.
- Serve in this capacity for the 2013-14 school year.



Learning On the GO

1:1 Laptop Program

2012-13



Taking i21 to the Next Level



Taking i21 to the Next Level



...SDUSD's Learning-on-the-Go initiative, education doesn't stop at the schoolyard gate or the library door. Through the LOGO pilot's offcampus wireless Internet connectivity, students now have access to digital textbooks and other innovative resources that allow them to learn in a real-world context, inside the classroom and beyond...





Taking i21 to the Next Level



6th grade at:

- Knox MS
- Lewis MS
- Longfellow
- Mann MS

- Dana MS
- Pershing MS
- Wilson MS
- Montgomery MS

7th and 8th at Innovation MS 6th, 7th and 8th at Millennial Tech MS



Taking i21 to the Next Level



What students receive:

- Netbook with broadband access
- Netbook bag with student ID
- Charger
- Filtered internet
- Electronic textbooks
- Software programs including those for word processing, video editing, creating flipcharts, and electronic notebooks. All are compatible with District infrastructure and supported by the IT Dept.



Taking i21 to the Next Level



Site Support:

Ongoing professional development

- i21 workshops
 - "Flipping" the classroom
 - Classroom visitations
 - Collaboration days
- Intro to TSS
- Designated Tech Resource Teacher
- Administrator Support



LOGO Initial Student Survey



82% of students would prefer to do assignments at home on a computer.

86% of students said they learn better when teachers incorporate technology such as videos, interactive websites, and online games into their instruction.

38% of students do not have internet at home



LOGO Initial Parent Survey



- 91% of parents said that they prefer that their child use a school-issued computer that includes software used at school, as well as filtered internet with built-in safeguards.
- 95% of parents said that if given the choice they would like this program to continue next year.



LOGO Parent Feedback



"Having wireless internet is so great because my child can do her homework/school work any where and that is so important especially because she is back and forth between family because I am a single mom and work full time..."

"His organizational skills, desire to work, and his interest in his education has also vastly improved as a result of this netbook. This program is invaluable to him and also to students who would not otherwise have this opportunity."

"Fantastic program. Has helped us tremendously as we do not have a computer or internet at home. Now I check grades and my child has access to everything she needs to be successful."

The LOGO Experience Innovation Middle School



What does our 1:1 Mobile Learning look like?

- Personal learning devices
- Extended learning: 24/7 access
- Focused instructional delivery
- Creativity and collaboration
- GSA 2.6 put into practice
- Responsibilities and Acceptable Use
- Student voice, choice, and project-based learning





The LOGO Experience Innovation Middle School



Impact of our 1:1 Mobile Learning...

- 99% teacher retention over 4 years
- API gain of 43 points, 767 in 2010 to 810 in 2011 (highest growth for any middle school in SDUSD)
- Increased accountability for students and adults alike
- Creativity and collaboration adults
- Ability to differentiate instruction with "just in time" support
- Presentations/projects to authentic audiences motivates students to achieve higher levels of quality



District-wide Achievement

Meeting the needs of today's learners

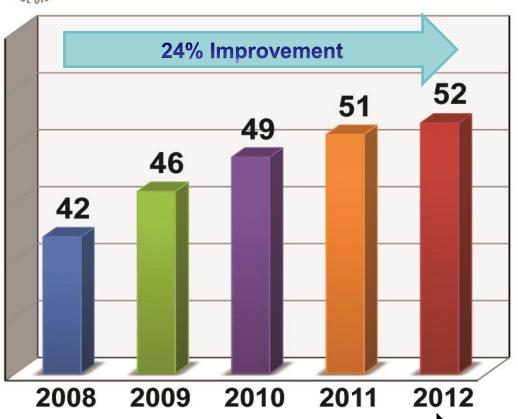


Changing the Learning Landscapes Student Achievement



California Standards Test Results, 2008-2012

Mathematics





I21 Implementation

Changing the Learning Landscape Student Achievement



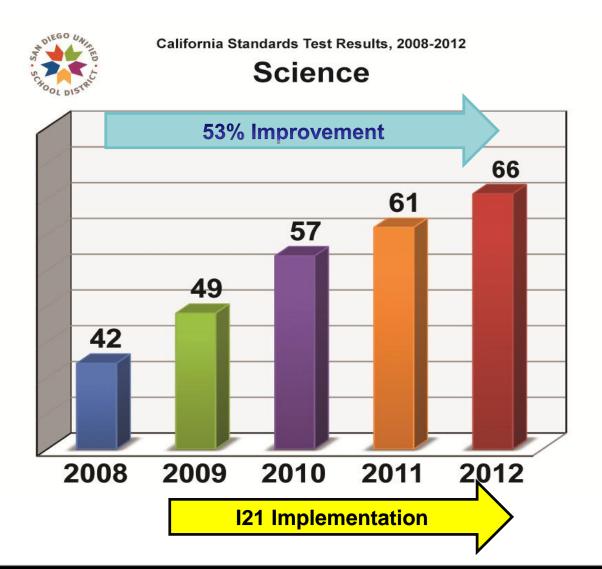
California Standards Test Results, 2008-2012

English Language Arts





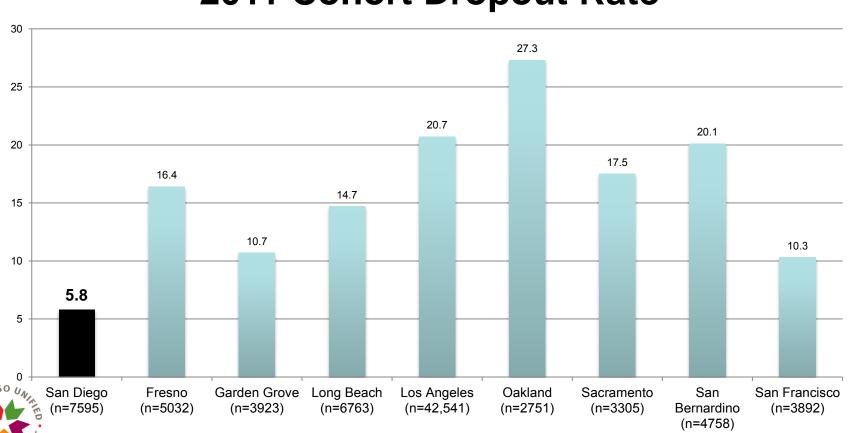
Changing the Learning Landscape Student Achievement



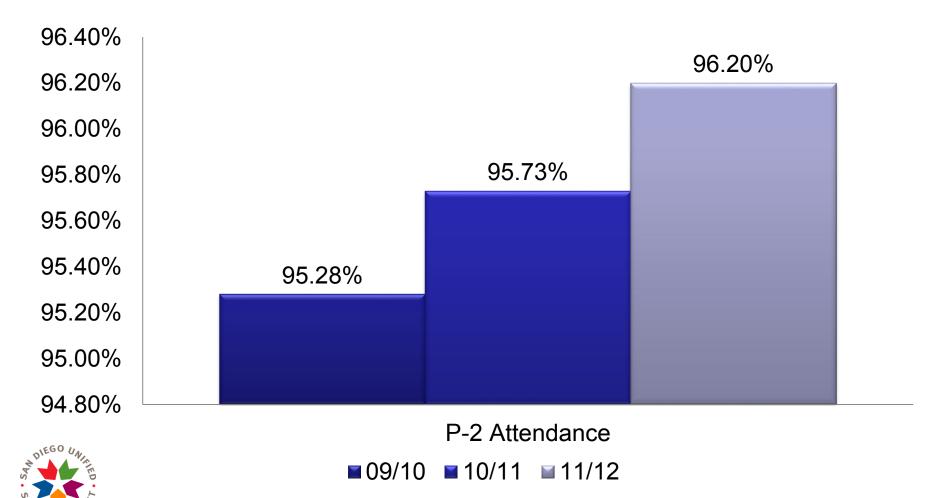


Changing the Learning Landscape Student Drop Out Rate

2011 Cohort Dropout Rate



Changing the Learning Landscape Student Attendance



Classroom of the Future's 2013

Innovation in Education Award

SDUSD's i21 wins 2013 IMPACT Award!





Based on Inspiration, Innovation and Achievement

Broad Foundation Award 2013 Award Nominee





The Broad Prize for Urban Education is an annual \$1million award -- the largest education prize in the country--that honors urban school districts that demonstrate the greatest overall performance and improvement in student achievement while reducing achievement gaps among poor and minority students.



i21 Interactive Classroom Prop S Update

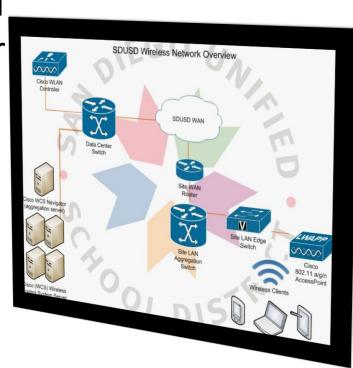


Infrastructure Upgrades and Equipment



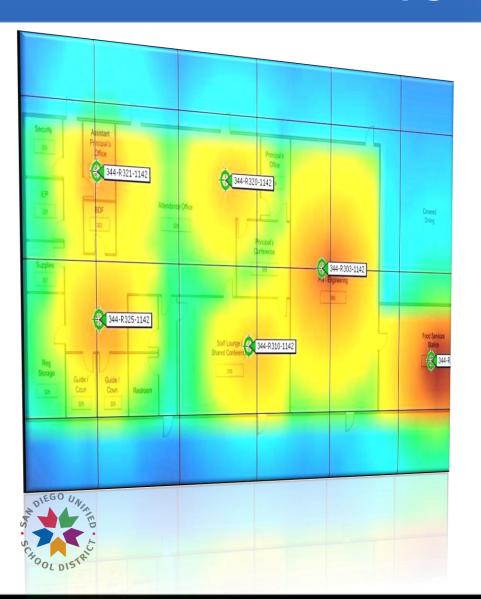
Campus-wide Wireless Upgrades Wide Area Network

- Approximately 11,000 dual band Cisco 802.11a/g/n access points will be deployed for indoor and outdoor client access over 5 years
- As of July 2013
 - 7740 access points installed
 - 4,500 rooms with i21WIRELESS
 - Over 80 schools are now campus wide



Campus-wide Wireless Wide Area Network Upgrade





Centralizing controllers into the Data Center cuts down on service visits to remote sites...

Cisco Wireless Control System (WCS) with Cisco Mobility Services Engine allows staff to easily track client device location and monitor critical network performance statistics

i21 Interactive Classroom Equipment





Teacher Tablet Software for Teachers

- ActivInspire Version 1.6.50464
- ActivEngage 1.3.0
- Document camera software
- Firefox 10.0.6
- Internet Explorer 8.0.7601.17514
- Lanschool Student 7.4.2.2
- Kurzweil 3000 Version 11
- Microsoft One Note 2010
- Microsoft Office 2010
- Google Earth 6.0.1.2032
- Geogebra 3.2.46.0





iPads managed via the web using the Lightspeed Mobile Device Manager (MDM)

Student Netbook Software for Students





ActivInspire – 1.6.50464 ActivEngage – 1.3.0 Firefox - 10.0.6**Internet Explorer** 8.0.7601.17514 Lanschool Student 7.4.2.2 Kurzweil 3000 Version 11 Microsoft One Note 2010 Microsoft Office 2010 Google Earth – 6.0.1.2032 Geogebra – 3.2.46.0



Student iPad Software for Students





Apple Built-in Apps
District image on the iPads
includes:

ActivEngage - 1.3.1

Destiny Quest – 1.5.1

Dragon Dictation – 2.0.24

GoodReader - 3.18.6

Google Earth – 7.0.0

iBooks - 3.0

iTunes U - 1.3

Keynote - 1.6.2

KMZ Loader – 1.0

Numbers – 1.6.2

Pages – 1.6.2

WebDay Nav+ - 1.6.2

i21 Interactive Classroom Prop S Update



i21 sustainability estimates after 5-year rollout is complete



121 Sustainability

Netbooks/iPad after 5 years



Student computing device in a 1:1 model					
Grade Level	Quantity	Estimated Price	Estimated Annual Repair Costs	4 Year Replacement Cycle Annual Costs	
6-12	55820	\$350.00		\$4,884,250.00	
3-5	26690	\$300.00		\$2,001,750.00	
Sub Total	82510			\$6,886,000.00	
Yearly Netbook Incidental Repair-Loss 3%	2475	\$350.00	\$866,355.00		

(Student computing device replacement is based on a 4 year replacement cycle. The optimal cycle is 3 years but the national average ranges 4-5 years)

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Yearly Netbook Incidental Repair-Loss 3%

2475

\$350.00

\$866,355.00







121 Sustainability Teacher Tablet after 5 years



			Estimated Annual	4 Year Replacement
	Quantity	Estimated Price	Repair Costs	Cycle Annul Costs
Number of TeacherTablets in Core Rooms	5800	\$1,000.00		\$1,450,000.00
Yearly Tablet Incidental Repair 2%	116	\$500.00	\$58,000.00	





121 Sustainability Promethean Board after 5 years







121 SustainabilityAfter the 5 year rollout is complete

i21 Sustainability Estimates									
After t	he 5 Year Rollout	is Complete							
Quantity	Estimated Price	Estimated Annual Repair Costs	4 Year Replacement Cycle Annual Costs						
55820	\$350.00		-						
26690	\$300.00								
82510			\$6,886,000.00						
2475	\$350.00	\$866,355.00							
replacement cycle. The o	optimal cycle is 3 years but	the national average range	s 4-5 years)						
Quantity	Fetimated Price	Estimated Annual	•	Annual Support Agreement After Year 5 of Prop S					
Quantity	Litillated Trice	Repair Costs	Cycle Alliai Costs	\$850,000.00					
5800	\$250.00		\$362,500.00	, , , , , , , , , , , , , , , , , , , 					
116		\$29,000.00							
	enance)								
		Estimated Annual	4 Year Replacement						
Quantity	Estimated Price	Repair Costs	Cycle Annul Costs						
5800	\$1,000.00		\$1,450,000.00						
116	\$500.00	\$58,000.00							
replacement cycle. The o	optimal cycle is 3 years bu	t the national average range	es 4-5 years)						
:		953,355.00	\$8,698,500.00	\$850,000.00					
	Quantity 55820 26690 82510 2475 replacement cycle. The or Quantity 5800 116 replacement cycle. The or Quantity 5800 116 replacement cycle. The or	Quantity Estimated Price 55820 \$350.00 26690 \$300.00 82510 2475 \$350.00 replacement cycle. The optimal cycle is 3 years but Quantity Estimated Price 5800 \$250.00 116 rears with proper maintenance) Quantity Estimated Price 5800 \$1,000.00 116 \$500.00 replacement cycle. The optimal cycle is 3 years but	Quantity Estimated Price Repair Costs 55820	After the 5 Year Rollout is Complete Quantity					

124 Contains billian Entire and



^{*} Prior to i21, the district spent on average annually \$10,680,375 on computers

District Road Map



2009-2011

Professional development journey begins.

Building i21 site capacity.

Solid network infrastructure.

Just-in-time assessment.

Installation of i21 classroom suite.

2011-2012 2012-2014 2012-2014

i21 roadmap

2011-2012



An evolving learning experience.

Increased access to digital resources, intervention programs and classroom websites.

Business intelligence drives decision-making.

24/7, 365 access to learning.

Leadership development.





2012-2014

Digital textbooks begin to replace print material.

Personalized instruction meets the needs of the 21st century learner.

Digital dashboards with drill-down access to a variety of real-time district data.

50% of high school students will take at least one course online.

All core classrooms are equipped for the 21st century.



Changing the Learning Landscape i21 Initiative

"The i21 instructional program is in the **vanguard** of true 21st Century instructional strategies..."

"...a leading example of where public education is headed as school districts learn to harness the potential of technology to enhance student achievement through an engaging student-centric approach that mirrors the digital world in which they live..."



Gartner, Inc. December 2011

i21 Interactive Classroom Prop S Update



Questions

