iPads: One 2 One

From Rationale 2 Roadmap

Oak Park
UNIFIED SCHOOL DISTRICT

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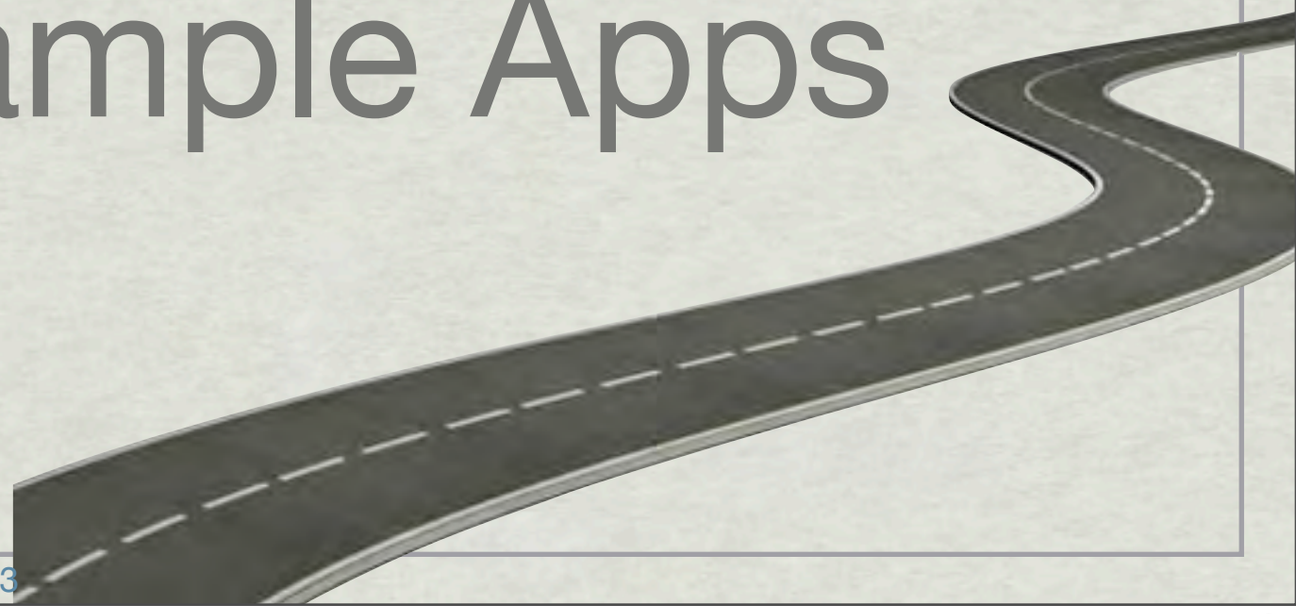
iPads 1-to-1

Why - Rationale

How - Roadmap

What - Sample Apps



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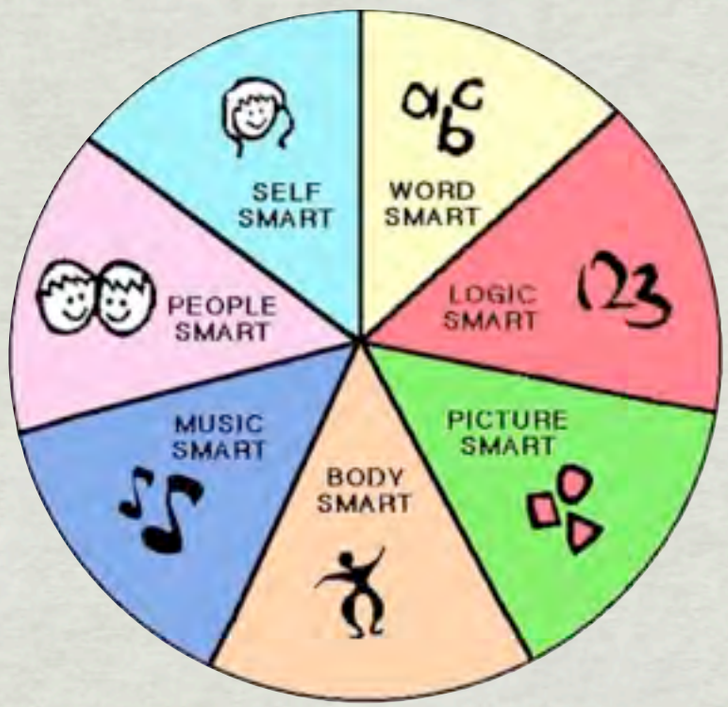
We Believe....

All students should receive instruction that is differentiated. Learning experiences should emphasize depth, complexity, and novelty.

(OPUSD Moral Imperative Goal 1a)

Differentiation

- Addresses individual student needs:
  - unmastered curriculum standards
  - optimum learning modality
  - motivation and engagement
  - learning pace



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In the classroom....

- Students have differing learning modalities (visual, auditory, kinesthetic, etc.) and learning paces
- Teachers provide the differentiation
- Class size limits time for differentiation (1 vs. 22-36)
- One lesson delivery style does not fit all....

Can Technology Provide a Solution?

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Computer Technology

Effective Educational Computing Use:

(each level builds on the one above)

Level 1: Teacher - Administrative Tasks

Level 2: Teacher - Lesson Delivery (21st Century Classrooms)

Level 3: Student - General Productivity Tasks (COWs)

Level 4: Student - Targeted practice, assessment and reteaching of specific content skills and mastery

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Why 1-to-1 Computing?

The GOAL:

Differentiated instruction

The KEY:

Immediate feedback and reteaching

The TOOL:

Lesson software that respond instantly to each student's needs

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Learning 24/7

- 1-to-1 Mobile computers allow:

- On-line class discussions (My Big Campus social media “sandbox”)
- student peer collaboration
- access to tutorials, on line practice, and reteaching after the school bell rings

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Why iPads?

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1st Learning Appliance

Instant On

Intuitive / Easy to Use

Reliable (all day battery)

Optimized for One Task

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Myth of the Device

- Hardware defines what computer can’t do is and mainly a conduit for software.
- Software is what defines a computers usefulness
- Find effective software, then choose the hardware that it runs on.
- High quality app availability is more important than hardware speeds and specs

Optimized = Appliance

- Apps reprogram the iPad Learning Appliance for new tasks
- Each app can be highly targeted for narrow curricular focus
- Environmentally aware apps compel engagement -through accelerometers, compasses, light and sound sensors

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High Quality Apps

- Motion Math

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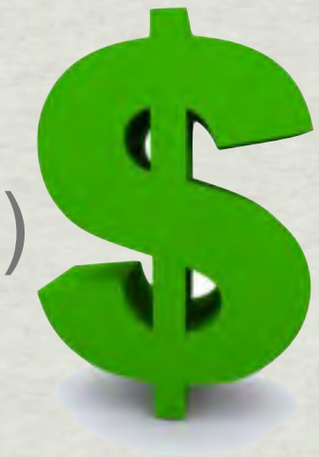
Apps vs. Programs

- Cost: $.99/free vs. $35-$70 per seat ($800/lab lic.)



- Targeted focus vs. general usage
- Democratized publishing vs. mainline publishers
- Trivial to find, buy, and install apps vs. conventional computer program

- Much deeper pool of availability and selection for apps vs. programs

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Common Core

- SBAC testing regime arrives 2014-2015
  - Computer adaptive testing
  - Performance based tasks
- iPads (9.7” screens) are approved testing vehicle
- The 1 to 1 advantage for students

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What about eTexts?

- The Good:

  New interactive learning paradigms

  Instantly updatable

- The Bad:

  No cost savings (yet): Buying vs. Renting/Subscriptions

  Few quality titles for K-12 as of Summer 2013

- The Ugly:

  iBooks License Agreement does not support institutions (yet) !

  Hopefully, this will change in the near future....

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Why 1-to-1 iPads?

Differentiation & Engagement

- multi-dimensional interaction and kinesthetic engagement reach students with different learning styles
- Immersive learning environment: swiping, tilting, pinching, speaking, tapping draws students in
- Learning Appliance: Instant/Intuitive/Reliable/Optimized

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HOW ?

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Three Year Roadmap

STEP BY STEP

Y0: All teachers issued temp iPad (Summer 2013)

Y1: iPad Learning Centers (2013-14) 6-8 devices

Deploy next gen wireless network (Summer 2014)

Y2: Mobile iPad Learning Karts (2014-15) 36 devices

Y3: Student 1-to-1 iPad program deployment (2015-16)

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TechLITEs

STEP BY STEP

- Teacher Leaders Integrating Technology in Education
  - at least 2 per site (upper/lower MathSci/EngSS)
  - meet with Director of Tech at least monthly
  - first access to technology (learning centers/MiLKs)
  - conduct iPad training at staff meetings/buyback workshops
  - Stipend position, will attend CUE every other yr.

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Y-0 Setting the Stage

Spring-Summer 2013: iPad Exploration

- Some TechLITEs receive iPad Learning Centers (May)
- Teachers receive one temporary iPad loaner (16Gb) for the summer/Fall (June)
- Create Staff Apple ID using district email address, use personally purchased iTunes gift cards to “buy” apps
- Goal: Use iPad for general productivity (L1)
- Begin to explore possible apps for grade level/subject

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Y-1 Learning Centers

2013-14: iPad Learning Centers

- Each teacher issued next gen iPad (32Gb) in Fall
- Goal - use iPads to deliver lessons via Reflector (L2)
- Deploy Learning Centers to 50% of Elem classrooms
- Deploy Learning Centers to select Secondary classrooms that can use 8-9 iPads per classroom
- Mobile iPad Learning Kart (36 iPads) for TechLITEs
- Learn how to use VPP program to buy apps in bulk

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Y-2 Got MiLK

2014-15: Mobile iPad Learning Karts

- Deploy next gen wireless network
- Complete iPad learning centers to all Elem classrooms
- Deploy at 1 MiLK per grade level per site (Elem)
- Deploy MiLKs to Secondary School departments
- Goal: teachers explore performance based lessons, students take SBAC practice test on iPad (L3)
- Build public support for 1-to-1 iPad Lease-to-Own program

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Y-3 Student 1-to-1

2015-16+: iPads for Every Student

- Districtwide 1-to-1 Student iPad rollout (tentative)
- Teachers utilize performance based lessons and projects with iPads
- Students use iPads for SBAC Common Core computer adaptive assessment
- Goal: Every student using iPads for depth, complexity, and novel lessons. (L4)

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What Will It Look Like?

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Standard Teacher Load

- Pages, Keynote, Numbers, iMovie, Office2 HD
- Documents by Readdle for local document storage
- Wireshare - wireless upload/download images, videos, and files from iPad via web browser
- Dropbox for personal doc management

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Math

- Long Division (any Math app by Esa Helttula:A+)
- ThatQuiz.org (web based quiz generator handles classes)
- Math Drills (select focus area)
- Quick Math (unique input)
- FactorSamurai (Fruit Ninja format of Math drills)

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Language Arts

- Bluster
- Toy Story (Read Along)
- Free Books (Huckleberry Finn - pub domain)
- Comic Strip

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Science

- Go Sky Watch Planetarium
- The Elements
- Solar System
- Spacecraft 3D

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Arts & Other

- Art Authority - licensed HQ images from Art museums around the world
- Word Lens - foreign language Virtual Reality instant translation (Spanish, German, Italian, French)

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Social Science

- National Geographic World Atlas

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Teaching Tools

- Educreations (interactive whiteboard/recording)
- Class Dojo (class participation management)
- Common Core Resources
  - iTunes U (common core strategies)
  - CommonCore app (lists all CC standards)

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How Do We Get Apps?

- Important Concepts:

1. The iTunes account owns the app (not the device). Choose the right account before downloading apps. (Not district OPUSDbase@)

2. iTunes accounts normally are limited to 10 devices (unless they are “imaged” to the same account) - LC’s capped at 10 devices.

3. Apple Volume Purchase Program (VPP) can give 50% discount when 20 or more licenses for an app are purchased in one transaction.

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iTunes Account Tiers

- District iTunes account (OPUSDbase@)

  Base load of paid apps and library of free apps

- Staff Apple ID iTunes account (Teacher@)

  redeems VPP install codes furnished by TechLITE

  may use retail iTunes Gift Cards to prepay for apps

- Learning Center iTunes account (Teacher_LC@)

  Teacher redeems VPP install codes once for LC account but keeps track of number of iPads it is installed on

- Personal iTunes account (home@gmail....)

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- For this Summer, staff should use their Staff Apple ID (NOT the district OPUSDbase@ account) and use retail iTunes gift cards to pay for apps to explore over the summer
- Next Fall, TechLITEs will be trained on Using VPP program to create redemption codes. App Vouchers will be a site/department expense
- MiLKs will require a different plan to manage app deployment and licensing

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Twitter.com/app4ed

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Resources

- Daily feed of K-12 free or sale apps

  www.twitter.com/app4ed

- District iPad Resources

  www.oakparkusd.org/ipads

- Apple iPad User Guide

  http://help.apple.com/ipad/6

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