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Implementing “One to One” iPad Academy

Justin Montgomery
Carolyn Wolsiefer
Delaware Valley Regional H.S., NJ

Overarching Topics

- One-to-one and rollout considerations
- Training and the iPad Academy
- What we learned and instructional changes

One to One Types

- Every student has a computing device
- Devices vary
 - Laptops or tablets
 - Smart phones or iPod touches
- Ownership varies
 - Student (BYOD)
 - School provides

Del Val High School, NJ

- School provides
- Justification
 - Control over profiles and software
 - Uniform devices
 - Socio-economic equality

Choosing a Device

- Factors to consider
 - Tablet vs. laptop
 - Apple vs. Android
 - Educationally minded
- Our choice
 - iPad
 - Lightspeed Systems
 - Mobile Device Management system
 - Internet filter, social network (My Big Campus)

Financing Options

- Affording devices
 - Lease (4 yr.)
 - Purchase
- Sources of funds
 - Copiers (leases, repairs, supplies)
 - Paper textbooks (purchases, repairs, etc.)

Rollout Considerations

- App selection
- Document signing
- Training and support
 - Parents
 - Staff
 - Students
- Distribution

App Selection

- Note taking and file management
 - GoodReader and Note Taker HD
 - Evernote
- iWorks and iLife suites
- YouTube, Diigo, Free GraCalc, iBooks
- eBackpack, MyBigCampus, Google Drive
- Adobe Reader, Kindle, iTunes U

Document Signing

- iPad Handbook (rules and guidelines)
- Student Pledge for iPad Use (I will...)
- Protection Plan
 - \$40 per student per year, or
 - Proof of insurance coverage
 - Deposit equal to iPad's value
- iPad Assignment Form (serial number)

Parent Training

- Two sessions
 - Afternoon
 - Evening
- Work flow
 - Access course materials
 - Submit work
- Poor attendance

Staff Training

- Afterschool
 - One-topic focus
 - Brief (15 - 30 minutes)
 - Offered different days
- Summertime
 - Two days
 - Laptop and iPad
 - Aim small, miss small

Student Training

- Ideas to avoid
 - “The kids will get it.”
 - “The teachers can train the students.”
- Standardized training

iPad Academy

- First two days of school
- Broken down by grade level
- Class variety
 - Teacher or student led
 - Video presentation
 - Small and large groups

Teacher-Led Sessions

- Determine topics
 - Set-up device
 - Learning specific apps
 - Free parking (structured exploration)
- Translate into sessions
- Enroll and train teachers over the summer
- Use instructional videos from YouTube

Student-Led Sessions

- Identify in advance the students who are passionate about technology
- Pair with teachers who have limited expertise or volunteered to monitor
- Put in charge of answer technology questions during session
- Assign students to the technology help desk

Large-Group Sessions

- Choice of topic is important
- Sizing (up to 200 students)
- Efficiency vs. effectiveness

Other Sessions

- Homeroom
 - Start and end of day
 - Distribution
 - Collection for non-cleared paperwork
- Set-up
 - iCloud
 - Email
 - Passwords

What Did We Learn?

- Triple-check Wi-Fi network
- Let teachers “have at it”
- Manage paperwork efficiently
- Revise discipline code
- Modify models from other schools
- Equip staff in advance with technology

What Have We Gained?

- School
 - Monetary savings
 - Publicity
- Students
 - Organization
 - Access to information, content creation
- Teachers
 - No lab signups
 - Less time spent at copier

Student Misuse

- Devices left at home or uncharged
- Inappropriate doodling on cases, backgrounds
- Cheating (taking photos, etc.)
- Unauthorized video recording

System-Wide Prevention

- Mobile Device Manager
 - System profiles on iPads
 - Restrict iMessage, apps, screen shots
- Lightspeed Systems
 - Install profiles and distribute apps in mass
 - Filter Internet globally
- Apple’s deployment guide

Home Internet

- What if students don’t have access?
- Download material before leaving school
- Purchase service through local providers at steeply discounted prices

One-Time Event

- iPad Academy needed for rollout
- Incoming students receive training and iPads during summer orientation
- First day of school
 - Short iPad homerooms first and last period
 - Distribute iPads, possibly cover any new training
 - Slightly modified bell schedule

First-Year Breakage

- Device damage stayed below 10 percent
- There were 10 exceptional cases
 - Student on third iPad and parents had to pay
 - Misused to “get back at school” or parents
 - Suspended from iPad use for bullying, etc.
 - Small number of lost or stolen devices
- Two sets of parents changed their minds
- Less than 1 percent irregular issues

Instructional Changes

- One year so far to infuse technology
- Increase in student-centered learning
- iBooks
 - Interactive (simulations, etc.)
 - Embedded videos
 - Highlighting and flashcards
- PDF textbooks

Instructional Changes (Cont.)

- Electronic note sheets and handouts
 - Syncing at the push of a button
 - Materials easy to organize and access
 - Students annotate on iPad
 - Increased academic learning time
- Online assessment
 - Formative (polls, discussion questions, etc.)
 - Summative (tests with a variety of questions)

Instructional Changes (Cont.)

- Increase in content creation using movies
- Greater use of spreadsheets to analyze data
- Dynamic graphing calculators provide students with better visualization
- Online resources (e.g., Khan Academy) at fingertips

Gains in Special Education

- Accessibility features
 - Voice over and zoom for vision impaired
 - Speech selection
- Type instead of handwriting
- Organization
- Copies of teacher’s notes, answer keys

Implementing a One-to-One

- Use an iPad Academy for the initial launch
- Plan... a lot
 - Create, distribute, and collect signed agreements
 - Design trainings and enlist instructors
 - Cannot pay too much attention to the details

Contact Information

- JustinMontgomery@dvrhs.org
- CarolynWolsiefer@dvrhs.org
- www.DVRHS.org → iPad tab
 - Initiative information
 - Resources (video tutorials, helpful links, etc.)