1:1 Connected Teaching and Learning

May 2015
Teaching and Learning

• Equal access to learning tools
• Learning can be better differentiated to meet students’ needs (pace, style, background experiences, etc.)
• Shifts focus from memorization and comprehension to connection-making, critical thinking, and problem solving
• Supports and extends learning experiences beyond the classroom
• Make textbooks and other learning resources interactive – promotes learner engagement & independence
• Capitalizes on technology students are using outside of school
Teaching and Learning

• Permits opportunities for more student-directed learning based on interests and goals
• “Real time” resources – textbooks, documents, websites, and other materials that are current, up-to-date, and interactive
• One device can serve multiple subjects and grades – less books for students to carry, materials and apps can be added when identified as being worthwhile
• Teaches students necessary skills for postsecondary life (college, workplace)
Why?

As a school system, we accept the responsibility and challenge of optimizing learning for all children so that they are prepared with the knowledge, skills, perspectives, and attitude needed to \textit{thrive} in the 21\textsuperscript{st} century, no matter what path they choose to take.
Tech Task Force  
*Innovation, Engagement, Transformation*

Develop a comprehensive plan to transform teaching and learning with technology at all grade levels.

Key areas:

- Mission & Vision
- Deployment
- Financing
- IT Infrastructure
- Community
- Content and Instruction
- Professional Development
- Measuring Success

Comprehensive Plan: Strategies for Goal #1

“The Hempfield School District will implement consistent, research-based assessment and instructional practices in all district classrooms.”
## Implementation Plan

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Budgeting & Finance

• Financing purchases by reallocating money from technology, curriculum, supply, and other locations

• Resale
  – Purchase Option

• Insurance
  – $30 / year / student
    • Family cap?
  – Free/reduced exempt
  – Covers first $50 in damage for two incidents
  – Must be paid before iPad can go home
  – Clauses for intentional damage, theft, etc.
Device Selection

- Laptops
  - Mac, Windows, Linux, Chromebook
- Tablets
  - iPad, Android
- Others
  - Nooks, Kindles, etc.

- Software Availability & Licensing
- Multifunction
- Manageability
- Personalization
- Durability
- Battery Life
- Cost ($350-$500)
Why iPad?

- Solid construction, no moving parts
- Portable size
- Cameras, motion sensors
- 10 hour battery life
- Self supportable

- $420 + case
- High resale value
  - $100 - $130, making total cost around $300

- Best supported tablet in the market
- Apps for virtually all purposes
- Deep support for eTexts, both consumption and creation
- Best supported tablet in education
- Balanced approach to customization vs. institutional management
Security

• Apple’s review process

• Mobile Device Management
  – Enforce policies, i.e. no apps rated for 13+
  – Serial number locking
  – Identification to use

• Content filtering for devices off-network
Customization & Privacy

- Students can use their own personal (or family) Apple IDs, allowing them to download and install software
- District software can be loaned to students
- Remote inventory, but no use of mic & camera
- Students strongly encouraged to use Find My iPad
  - District does not have access to location data
- iPads always “phone home” with last network address for use with law enforcement if necessary
Infrastructure Upgrades

Classrooms
• Mount projectors in all remaining classrooms
• Upgrade all projectors to HDMI models with AppleTV

Network
• Finish adding an access point for every classroom
• Add high density coverage in large group areas
• Replacing network gear in virtually all buildings
• Add a 2\textsuperscript{nd} Internet connection for backup
Professional Development

- Phased in approach, extended training opportunities beyond initial implementation year of training
- In-house and third party
- Before, after school, release time
  - Early dismissal/in-service time
- Skill based – utilizing the device
- Content based – integration
- Sharing of resources
- Digital citizenship
- Using devices appropriately

- PD for --
  - Administration
  - Department Leaders
  - Teachers
  - Students
  - Parents

- EITC

- Support
  - Instructionally
    - ITS
  - Technically
    - Operator
    - Students
Teacher Training - Year 1

- 21 – 4\textsuperscript{th} Grade Teachers
- Specialty Area Teachers
  - Art, Music, Phys. Ed
- Special Education
  - 4\textsuperscript{th} grade (13)
  - Others (13)
- Gifted, ESL, Reading
- Librarians
- Instructional Technology Specialists
Core PD Courses

• 1 Day - Introduction to Technology Grade Level Curriculum/Standards, SAMR, TPACK

• 1 Day - Introduction to Schoology

• 3 Days- Apple Foundation Courses/Software
  – 3hr sessions, each day consists of two different topics
  – Each training day will be held multiple days due to substitute coverage
Parent & Community Communication

• Parents as Partners, Community Forum

• April
  – Evening and morning/afternoon meetings for all parents

• May
  – Evening and morning/afternoon meetings for 15-16 4th grade parents

• August
  – Repeat meetings for 4th grade parents

• September
  – Internet safety and using the iPad at home
Submitted Questions

• Printing
• Keyboards
• Charging
• App purchasing
• Cases
• Damage

Google Doc forthcoming