Technology Task Force

Connected Teaching and Learning

December 9, 2014
Teaching and Learning

- Enhanced instructional time
- Motivation/engagement
- Anytime/anywhere learning
- Students can work at their own pace
- Content focus
- Access to information
- Electronic material distribution
- Student centered learning
- Collaboration
Teaching and Learning

- Ease of use
- Student directed learning
- Differentiation for ESL, Gifted, Special Education
- Real time resources (as opposed to static textbooks)
- One device can serve multiple subjects and grades
- Teaches students necessary skills for postsecondary life (college, workplace)
Comprehensive Plan

• Strategies for Goal #1, “The Hempfield School District will implement consistent, research-based assessment and instructional practices in all district classrooms.”

  – Implement a 1:1 Technology Initiative that puts a digital device in every student’s hands within a five-year time frame.
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
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

• iPads always “phone home” with last network address for use with law enforcement if necessary
**Infrastructure**

**Wired**
- FES, EPES, LIC networks built with 1:1 in mind
- LMS, CMS rebuilt last year
- MES, RES, CES, LPC being rebuilt this spring
- HHS ongoing

**Wireless**
- 100% coverage for low density
- 50%-80% coverage for high density depending on building
- Already started the deployment of 802.11ac
- eRate 2.0 potential for up to $1 million over 5 years
Classroom Technology

- iPads/Apple TV’s
- Wireless Mirroring of Devices
- Updating projectors and other classroom tech
- Dewey Document Stands - KTO

- Schoology
- Google Drive
- eBooks
- Science and Health
- Free tools already available
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
    - Operations
    - Students
## Implementation Plan

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Finances

- Buy vs. finance
- Warranty
- Repair Work
- Resale
  - Purchase Option

- Insurance
  - $30 / year / student
  - Free/reduced exempt
  - Covers first $50 in damage for two accidents
  - Must be paid before iPad can go home
  - Clauses for intentional damage, theft, etc.
## Budget Impact

### Already identified funds from Technology and Curriculum to offset costs, gradual shift over the next several years

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### 1:1 Reserve & Foundation

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### To Be Funded

Does not include savings yet to be determined, i.e. paper, books, supplemental resources
Implementation Plan

2015-2016: Grade 4
2016-2017: Grades 1(?), 4, 5, 7
2016-2018: Grades 1(?), 2(?), 4, 5, 6, 7, 8, 9, 10, 11, 12
2018-2019: Grades K-12
Next Steps

• Ridley School District, December 15
• Central York School District, January 12

• Staff Survey for Professional Development
1:1 Implementations in 18 Lancaster Lebanon Districts

- Implemented: 39%
- Planning: 17%
- Considering: 39%
- No Plans: 5%

1:1 Implementations in 18 Lancaster Lebanon Districts
Grade Levels With 1:1 in 18 Lancaster Lebanon Districts
Lessons Learned From Other Districts

• Experiences with distribution
• Paperwork and policies
• Software installation
• Discipline
• Collection
• Cleaning