Hempfield Technology Update

1:1 Pilot

Mike Graham, Director of Technology
Jeremy Paul, Assistant Director
RaeAnn Smith, Jen Miller
Katy Miller, Kim Rauscher
June 3, 2014
Classroom Equipment

Old Technology

• Netbook carts
• IWB (Interactive White Boards)
• Document cameras

New Technology

• iPad carts
• iPad – Apple TV (Interactive)
• Dewey iPad Camera Stands

Pilots and deployments over the last two years.
Classroom Instruction

Old

- Netbooks
  - Performance limitations
  - Mostly web-browsing
- IWB
  - One location-Front of Room
  - Software limitations
- Document Camera
  - Single purpose

New

- iPad
  - Purpose built apps
  - Web browsing
- iPad/Apple TV
  - Mobile
  - Groups
  - Students can share
  - Recording features
- Dewey iPad Camera
  - Multi-purpose device
1:1 Pilot Considerations

- Software availability and flexibility
- Compatibility with existing applications
- Simple operation
- eBooks

- Cost
- Battery Life
- Multi-function
- Reliability
  - No moving parts
  - Curated apps
- Support
  - Self support (HHS)
  - Well developed management tools

http://www.techcrates.com/netbook-vs-laptop-pros-cons/
1:1 iPad Pilots

- CES – 1st Grade – Mrs. Jen Miller
  - Sue Allen – Instructional Technology Specialist
    - iPad Mini’s
    - Pre-Installed Apps

- EPES – 4th Grade – Mrs. Cindy Fogelsanger
  - RaeAnn Smith – Instructional Technology Specialist
    - Full size iPad
    - Pre-Installed Apps

- HS – Biology/General Science
  - Mrs. Katy Miller
  - Mrs. Renee Dissinger
    - Full size iPads
    - Pre-Installed Apps/Student Installed Apps
How has the Classroom Changed?

- Increased 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
- Ease of use
- Learning from the students
Literacy Centers

- Spelling practice, accountability, listening center
Poetry

- Acrostic poetry
- Theme poetry
Mother’s Day Project

- Choice of 6 apps for creation
- Word clouds, poetry, picture collages, drawing, writing
My mother is a teacher. She is a kindergarten Teacher. She mostly likes her job. She is nice too. She likes to watch cooking shows.
Writing Center

Primary Writer

I like fruit!
Do you like fruit?
My favorite fruits are ...
Bananas and apples and Pares. What are your favorite fruits? Thar are a lo of fruit on the earth.

My moms birthday is in Spring. She is very nice. She growed up to be a Teacher. She taught first Grade. Her favorite food Is sushi. Her favorite sport is tenis. She takes Good care of me. We go to the pool to gather. She planes party's for me. She invites friend over. She loves cofee.
Story Elements with 2nd Grade

- Reading, story mapping, discussion, Popplet
Story map final projects
Plant Parts with 5th Grade
Popplet- photographs, diagram, labels, drawings

- stem: the stem takes the water to the leaf
- root: takes in water
- leaf: it takes in the air

Popplet: Natalie and Jacoya

- this is the clover
- this is the pea
- this is the pea's stem, stem holds the plant up
- this is clovers roots, roots help the plant grow
- this is the roots of the pea
- this is the clover's stem
Pete the Cat with Kindergarten

- Activities across all academic subjects
- Provide communication for rising first graders
EPE Grade 4

Mrs. Fogelsanger’s Class
Read-a-loud Activity

• LA Activity to serve as an introduction to iPads and apps
• Graphic Organizer describing character’s feelings with evidence from the text
• Video of a scene from the story
  – Scene selection
  – Script writing
  – Illustration selection
  – 30 second recording

ELA Skills:
Author’s purpose
Summarizing
Fluency
Persuasive Essay

- Planned using graphic organizer (Popplet or Inspiration app choice)
- Handwritten rough draft and editing
- Typed in Kidblog
- Responded to other students

Benefits:
- Application of Research skills
- Peer feedback
- Supporting Claims with evidence
- Motivation
- Access (home & school)
Pet fish persuasive essay

Splash! Splish! Splosh! A fish swims up to the surface of a bowl quickly with all it’s might as I sprinkle a little bit of fish food in the place where it lives on a beautiful sunny morning. That is what I want to happen in the near future. I really hope that I can get a pet fish. Here are some reasons why Kate, Sam, and I should get one or two.

Having iPads in the classroom persuasive essay

Imagine you having an iPad right in your desk that you can get out whenever the teacher asks you or ZIP! ZAP! ZOOM! You can use it at home to get work done faster! Now, I will tell you three reasons plus some explanations why having iPads in the classroom is a good no great idea!

June 2, 2014 at 1:43 PM

Good essay Ayla! I agree because yes, most classrooms don't get a lot of time on the iPads, like when before we didn't have the iPads we only had time to do Study Island. There was only two things that I would have added, one: that the Mac book cart had to be carried classroom to classroom. And secondly you should have mention that they were minis.
Kidblog Posts and Comments

To my mom persuasive essay
Categories: Blog June 2, 2014 @ 1:32 PM 1 Comment
An iPad is good for school so you can take notes. You can also make outlines for writing and I could send them to my teacher through kidblog. The research can be done on the iPad. The iPad is good for entertainment. I can play games to practice spelling, math, and there are lots of games to play for fun. I would use it for some reading. I would also watch some videos. The iPad is good for communicating with a parent and it is also good for working on a project with friends. It is also good for taking pictures for projects.

June 2, 2014 at 1:55 PM
Wow! I think that you should have an iPad. Anyway, you already have lots of experience since we are doing this research project for the school district. And now I can borrow some of your reasons to make my parents get me an iPad!

MissingNo persuasive essay
Categories: Blog May 30, 2014 @ 8:18 AM 2 Comments
Edit this Post
Do you want to know about the elusive MissingNo. You can with this essay. Learn about how to catch this overpowered Pokemon what it looks like, what it does and what it drops.

June 2, 2014 at 1:37 PM
I respectfully disagree with your essay because it doesn’t show what you want just what the MissingNo Pokemon looks like and what it does. I think you should talk about what you want like a video game of the MissingNo. That’s why I respectfully disagree with your essay.

Dog Persuasive Essay By Jordan
Categories: Blog May 29, 2014 @ 1:06 PM 1 Comment
One reason I would like a dog in my house is that Micah and I would take the responsibility for the dog. Micah and I would do that by making sure that the dog got fed two times a day. We would make sure that it has a comfortable place to sleep and take naps.

June 2, 2014 at 1:53 PM
I like your persuasive essay Tyler because I like how you describe how it’s waterproof. I agree that you should get a Samsung Galaxy S5 because it’s good for when you get lost. I think you can get ride of one of the ants, and get ride of one of the gets.

June 2, 2014 at 1:50 PM
Wow, it is very detailed. I want a puppy too, so I agree. And are you sure that you are going to get up that early? You must really want a dog in your house.
PA Presentations

• ABC Book- words and images that directly correlate to our state
• Brainstormed, researched, created, and reflected on what to include in their project
• Used websites, library databases and print text, including bibliography slide

Cross-Curricular Literacy Connections:

• History
• Geography
• Research skills
• Symbolism
• Speaking & Listening

• Summarizing
• Main Idea
• Supporting Details
• Elaboration
• High motivation
Student PA Projects
Additional Assets of 1:1

• Access to information, tools, and resources
• Differentiation
• Learning about Digital Citizenship
• Collaboration
• Planning & Preparation
Student and Parent Feedback
iPad Pilot

June 3, 2014
Semester Goals:

- To differentiate lessons
- Use more class time to transform the learning process and develop understanding of biological concepts
- Integrate technology

Solution for Reaching Goals:

- Flipped lessons
- 1:1 Technology
THE FLIPPED CLASSROOM

Turning Traditional Education on its Head

Many educators are experimenting with the idea of a flipped classroom model. So what is it and why is everyone talking about it?

WHAT IS THE FLIPPED CLASSROOM?

The flipped classroom inverts traditional teaching methods, delivering instruction online outside of class and moving “homework” into the classroom.

THE INVERSION

The Traditional Classroom
Teacher’s Role: Sage on the Stage

LECTURE TODAY
Homework: Reading and questions due tomorrow

The Flipped Classroom
Teacher’s Role: Guide on the Side

ACTIVITY TODAY
Watch lecture online tonight!
Why Flip?

*EVERY DAY IN CLASS.....teachers engage students with activities, workshops, labs and INDIVIDUAL ATTENTION.*
Why 1:1 Technology?

* Provides every student with equal access to a laptop or tablet
* Allows learning to be differentiated according to student needs
* Increases student independence and extends academics beyond the classroom
Engage!

Incorporate current technology kids are already using

Save Paper!

Individualize Education!

Better meet learning styles and needs!

**TABLETS**

Although tablets have only been around for a few years, they’ve become an important tool that may change education forever.

- **Bring textbooks to life**
  Instead of just reading about music or a famous speech, students can easily click to hear the song or speaker.

- **Provide a familiar experience**
  Students have been using smartphones for years, and tablets are the natural next step.

**TABLETS IN THE CLASS**

- **Provide alternatives to print books**
  The endless options for texts are often less expensive and don’t wear out as quickly as print books. Users can also customize their reading experience.

- **Suit students’ needs**
  Tablets are smaller than laptops, more lightweight than textbooks, and feature a long battery life.

- **Provide access to thousands of apps**
  Students can download any useful apps they need; tablets are also compatible with online teaching and learning platforms.
How was the iPad used?

- Near Pod
- Moodle Quizzes
- Knowmia lesson
- Knowmia Teach (note taking tool)
- Lab data collection & Analysis
- Lab report writing tool
- Concept Illustrator through the use of Apps
- Review Tool (white board/review Apps)
- Access to recorded course lectures
Free Biology Apps - Flipped or 1:1

- Mitosis
- Vcell
- Enzymatic
- Blood Typing
- Gene Screen
- iCell
- Cell Membrane
- Meiosis w/ snurfles
- Plant Histology
There are lots of technologies out there!

Rule of Thumb:
Ask yourself why you want to use it, and what you expect students to get out of it.
Student Feedback

★ 15/21 students felt the iPads helped them master course content
★ 19/21 students said iPad was helpful in completing school work
★ 15/21 students felt having an iPad for use each year would allow them to be more successful in their courses

Student iPad Use

- Study class notes, vocabulary
- Look up homework items
- Leisurely entertainment
- Research for Science/English
- Write papers (Google Docs)
- Big projects
- Access Moodle
- Use it for any homework that involves the internet
Benefits

★ Increased Student Engagement
★ Increased informal formative assessment and feedback for students
★ Increased student-paced activities
★ More efficient lab data collection/analysis
★ Deeper scientific discussions
★ Screen shot information for reference
★ Class time used more efficiently
★ Each student has access to all class resources at any time!
Difficulties/Concerns

- Student download ability (what do/should they have access to?)
- iPad/technology etiquette guidelines & consistent enforcement
- Better method to monitor student use in class
- Better course management system
- Better electronic methods for submitting work