Ohio School Boards Association
Capital Conference and Trade Show

November 13 – 16, 2011

Greater Columbus Convention Center
Columbus, Ohio

Flipping the classroom through Netbooks

21st Century Learning
Tuesday, November 15, 2011
2:00 p.m.
C 226

R. Todd Schmutz, superintendent, Pandora-Gilboa Local (Putnam)
Gene Lloyd, technology director, Pandora Gilboa Local (Putnam)

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OSBA Mission

OSBA leads the way to educational excellence by serving Ohio's public school board members and the diverse districts they represent through superior service and creative solutions.

Ohio School Boards Association

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Flipping the classroom through netbooks (laptops)

A practitioner's viewpoint

Pandora-Gilboa Local Schools
R. Todd Schmutz - Superintendent

How the idea was born

- Book bags
- In order to provide a "world class education"; our students need to utilize 21st century learning skills and tools.

Pandora-Gilboa Local Schools
R. Todd Schmutz - Superintendent

A need for change:

- Only 28% of Ohio students (class of 2011) who took the ACT met all four college readiness benchmarks. (source: ACT)
- 1968 Divergent Thinking Study by George Land
  (TEDx talks – Tucson, "The Failure of Success", December 2011)

Pandora-Gilboa Local Schools
R. Todd Schmutz - Superintendent

Results of Study

- 3-5 year olds   98% Genius
- 8-10 year olds   30% Genius
- 13-15 year olds   12% Genius
- Adults (31 year old avg.)   2% Genius

Recent Reform Efforts

- Curriculum – Common Core Standards
- Assessments – Ohio Achievement Tests

- PEDAGOGY – THE FORM OF TEACHING!!

Current Instructional Strategies

- Educators spend too much class time on the TRANSFER of knowledge.
- Why do some educators believe they are the SOURCE of information???
- Dumping textbooks for Ipads does not necessarily change the method of instruction.

Flip the classroom

- The transfer of knowledge takes place for homework.
- The following day, class time is spent with the teacher answering/clarifying the knowledge that was learned for homework.
- Students (group work) practice the skill with teacher supervision....hopefully by applying it to solve a real world problem.

Do we have the tools?

- Tools data for teens (12-17 year olds)
  93% use the internet

  75% have a cell phone

  69% have a desktop or laptop computer

Source: Pew Internet

Barriers to Flipping

- Availability of technology
- Reliability of technology (tech support)
- Teacher resistance to change
- The learning to read, reading to learn curve
- Educating parents about this shift in teaching method

Advantages of Flipping

- More time is spent on applied learning (skill practice) rather than content transfer
- Encompasses 21st century learning skills: communication, collaboration, creative thinking
- Students use technology interactively
- Creates a student centered classroom where multiple instructional strategies may be utilized.

Implementation 101

- Dr. Gene Lloyd – Technology Director

Implementation 101

- Important to provide these three key technology elements:
1. Quality technology.
2. Adequate bandwidth.
3. Adequate tech support

Implementation 101

- Important to provide these three systemic "human" elements:
1. District leadership that "gets it"
2. Quality professional development for staff.
3. Quality professional development for parents.

Implementation 101

- To filter or not that is the question.....
  - By law not necessary at home
  - NSA- FBI- DHS seem to have some difficulty with this
  - How effective is filtering... UltraSurf

Implementation 101

- How do we move to year-round usage......
  - What ways can one work at their own pace-own place, and own time.
  - Maintenance issues

Implementation 101

- (Video Testimonial) - Student

Implementation 101

- (Video Testimonial) - parent

Implementation 101

- (Video Testimonial)-teacher

Implementation 101

- (Video testimonial) – Principal

Implementation 101

- I "flipped" the classroom in 1988….
- (Examples)

Conclusion

- Advantages:
  - Allows the students to use their extraordinary capabilities (Intelligence is diverse-it's dynamic-it's distinct.
  - Flipping the classroom is just a part of a bigger change that is occurring in education

Conclusion

- Disadvantages
  - If not implemented correctly, it can be a district relation nightmare
  - You are making a fundamental change to the educational process (be careful).

Thank you

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