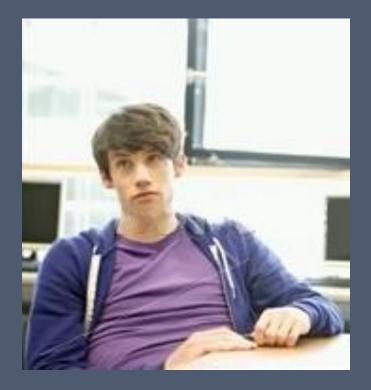
using technology in schools in an appropriate way

INTEGRATING TECHNOLOGY IN THE SECONDARY CLASSROOM

Courtney Mills

Kyle's beliefs



- Waste of money
- Same results
- Lacks time and energy
- Already knows what he wants to do

Are we him?

- Waste of money
- Same results
- Lack time and energy
- Already know how to do what we need to



What the critics are saying

Money

- Budget cuts continue
- Price of technology is high?
 - Estimated cost of \$5.4 billion
- "Buy the box" misconceptions

Results from technology are the same

- Textbook methods are tried and true...
- Time for real-time data collection later

The burden of time

- "a tack-on for an already packed full program"
- "they can't envision technology being a conduit to delivering and enhancing the curriculum they teach."
 -Brenda Dyck, technology integration coach

An unnecessary addition?

- Education has been happening for all of history without current technology
- New technology is constantly developed
 - Common, easiest approach: drill-and-kill practice

The facts of the matter... what we need to know in response

- Less than 2% of the national education budget
- Small annual costs are worth it
- Real-time data collection vs. textbook methods
- Growth associated with real-world application

Teachers take charge

 "As at any level of K-12 education, teachers' technology skills and interest also play a major role in how much computers are used in the high school classroom." –Fred Holmes, HS Webmaster

 "The goal of education technology should be to educate our students better and incidentally to equip them better for working in the 21st Century." –William L. Rukeyser, Coordinator of Learning in the Real World

Two technologies at stake

Teacher Technologies

- Grading software
- School management databases
- Projectors, document cameras
- Internet data and file sharing

Student Technologies

- Audiotapes
- Homework hotlines and research tools
- Word-processing
- Calculators

Basic truths to live by

- Technology is intriguing
- Higher potential for instant feedback
- Deeper learning can take place
- Greater collaboration
- New doors open for teachers
 - Moodle
 - Online presentations
 - Student feedback
 - Hands-on experiments

Living in a global society

- The age of information and innovation
- "Technology is a powerful instructional tool and transformative force."
 –State Board of Education Task Force on Embracing the Information Age
- Not just a calling, but a command
 - No Child Left Behind
 - "every child technologically literate by the end of 8th grade"
- Authentic instruction and assessment

Michigan Educational Technology Standards for Students (METS-S) 2009 for Grades 6-12

- Creativity and Innovation
- Operation Communication and Collaboration
- Research and Information Fluency
- Critical Thinking, Problem Solving, and Decision Making
- Oigital Citizenship
- Technology Operations and Concepts

Michigan Merit Curriculum at the Secondary Level

- What the law says:
- "A school district or public school academy shall provide the basic level of technology and internet access required by the state board to complete the online course or learning experience...
 - At least 1 course presented online
 - Integration of an online experience by each teacher of each course"

Why do we do this at the Secondary level?

- Preparation for the workforce
- 67% of workers go online every day
- 72% of full-time workers need this experience
- Students increasing their own skills
- The demands of higher education

Who are we to decide??

How should we be using it?

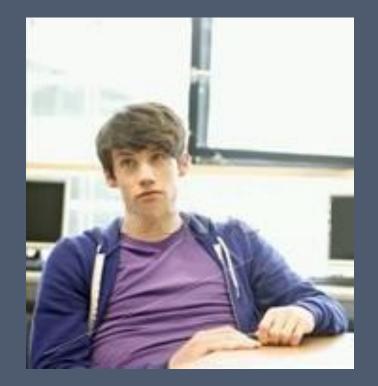
- Start with objectives
- Survey students
- Consider your abilities
- Balance instruction
- Provide resources
- Consider all options
- Familiarize yourself
- Enlist your students

What are you doing?

 Are you teaching your stu their generation by incorp of technology in your teac in use

 Or, are you holding to the without technology that will make them struggle to catch up with the tech-savy world?

Don't be Kyle!



Bibliography

- http://www.context.org/ICLIB/IC18/TechEduc.htm
- http://www.mff.org/publications/publications.taf?page=269
- http://www.papert.org/articles/LookingatTechnologyThroughSchool. html
- http://www.education-world.com/a_tech/tech/tech211.shtml
- http://www.michigan.gov/documents/STP2006_5-10-06c_158945_7.pdf
- http://techplan.edzone.net/METS/
- http://gsi.berkeley.edu/resources/it/rules.html