Active Learning with Technology: Myths, Magic, or Just a Lot of Bonk

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No Child Left Behind Summit, e-Learning and Students Today: Options for No Child Left Behind
Susan Patrick, Director, Office of Educational Technology, U.S. Department of Education

• Reasons: Rural, medical, disabilities, at risk, work, sport, poverty, AP, supplement, catch up, summer, etc.
• Types: Virtual charter schools, State run schools, District run, University run.

Per Tim Stroud, North American Council for Online Learning (NACOL) http://nacol.org/

• 141 Online Learning Programs
• 25% of schools involved in some type of online learning
• Less than 10% take all courses online
• 300,000 students and 10,000 teachers


Growth of Online Learning in Secondary Schools

Figure 2 Map of Participating MS 8th School Buildings (2003-04)
1. Free Online Tools and Resources
(e.g., Encyclopedia of Women)

2. Scavenger Hunts

3. BrainPop (movies, experiments, timelines, activity pages)
(Gina Koch Hidalgo, FETC Connections, Fall 2005)

4. COSMEO: Online Homework Help from the Discovery Channel
includes math homework help, 15,000 interactive learning quizzes, games, and puzzles, 27,000 research articles, and 30,000 video clips that correlate to state standards!!! And the collection is expanding daily (cost = $9.95/month for up to 4 kids per family)

Reasons for Offering Distance Education Courses
(Patrick, 2006, e-Learn Conference)

<table>
<thead>
<tr>
<th>Reason</th>
<th>Not Important</th>
<th>Somewhat Important</th>
<th>Very Important</th>
</tr>
</thead>
<tbody>
<tr>
<td>Offering Courses Not Otherwise Available</td>
<td>0%</td>
<td>20%</td>
<td>80%</td>
</tr>
<tr>
<td>Meeting Needs of Specific Student Groups</td>
<td>80%</td>
<td>20%</td>
<td>0%</td>
</tr>
<tr>
<td>Offering AP Courses</td>
<td>40%</td>
<td>40%</td>
<td>20%</td>
</tr>
<tr>
<td>Reducing Scheduling Conflicts</td>
<td>80%</td>
<td>10%</td>
<td>10%</td>
</tr>
<tr>
<td>Preventing Students Who’ve Failed to Take AP</td>
<td>60%</td>
<td>30%</td>
<td>10%</td>
</tr>
<tr>
<td>Growing Populations and Limited Spaces</td>
<td>80%</td>
<td>10%</td>
<td>10%</td>
</tr>
<tr>
<td>Generating More District revenue</td>
<td>80%</td>
<td>20%</td>
<td>0%</td>
</tr>
</tbody>
</table>

Two Dozen Technology Integration Ideas
5. Videostreaming and Videoconferencing
(to take off in next several years ...$4.5 billion in 2007

6. Online Exams and Homework
USA Today 11/25/03

7. Computer Grading

8. The TICKIT Project

9. Digital Storytelling

10. Innovation is but one click away...
11. E-Portfolios

- Multimedia presentations (video, animation, voice-over testimonials)
- Examples of work
- Personal statement
- Self-reflections on that work
- Connections between experiences
- Standard biographical info
- i.e., progress, achievements, efforts...
- Large, complex, time to grade

12. High School Student Self-Testing (e.g., Calm Chemistry)

13. Instructor Portal: e.g., self study in anatomy

14. Language Learning (ChinesePod—learn Mandarin)

15. Exploration: Virtual Museums and Archeology

16. Online Labs (e.g., Foreign Language Practice Exercises Online)
17. Virtual Fieldtrips

Blogging Questions
1. Who has a blog? Any for a specific class?
2. Who regularly reads other people's blogs?
3. Who assigns blogging tasks?
4. Who has created a video blog?
5. Who thinks it is an utter waste of time to blog?

18. Vlogging (Video Blogging)
e.g., Andy Calvin's Waste of Bandwidth

Wiki Questions
1. Who regularly reads Wikipedia articles just for fun?
2. Who regularly reads Wikibooks?
3. Who seeks Wikipedia for content?
4. Who has edited or written new articles on Wikipedia or Wikibooks?
5. Who thinks it is ok for college students to cite from Wikipedia?

19. Adventure Blogging = Reality Teaching and Learning

20. Wikis
21. Wikibook Creation and Collaboration

22. Podcasting and Coursecasting (Adam Curry; www.dailysourcecode.com)

23. Student Podcast

"Just the word 'podcast' scares a lot of teachers away," Ms. Schrock said. "There are a lot of misconceptions."

"All you need is a computer, access to the Internet and a microphone that you can buy at Toys 'R' Us," Mr. Warlick said. "I listen to podcasts on my computer." (NY Times, Jan 25, 2006)

24. Art and History Exhibits

Podcasts and Wikis and Blogs Oh My! (Sample articles at PublicationShare.com archived talks at TrainingShare.com)

James Bonk