Avoiding Natural Disasters with Blended Learning
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Swine Flu

Hurricane Ike

Tsunami American Samoa

Doing the Tsunami Tango in American Samoa: Part I
Wayne Hodgins, Learnativity
http://learnativity.typepad.com/

Blizzards and Ice Storms

SARS in Hong Kong
(David Carpenter, May 2, 2009)
"When the 2003 outbreak of SARS occurred in Hong Kong, the government quickly closed all the schools. The Hong Kong International School moved to create their "Virtual School" for students remaining in Hong Kong and those who chose to return to their home countries. We used simple Web pages, email, MP3 voice recordings, phones, etc. to run our online learning community."
Poll #1: Have you ever experienced a natural disaster? (check all that apply)

1. SARS
2. Earthquake
3. Tsunami
4. Winter Blizzard or Ice Storm
5. Major Flood
6. Hurricane, Typhoon, or Serious Tropical Storm
7. Swine Flu, Asian Flu, or Similar
8. Tornado
9. Near death weather-related situation
10. Other (not listed above)

How Schools and Parents Can Prepare for Swine Flu

Here are tips for parents and schools to keep children healthy and engaged in their learning, Zach Minors, November 2, 2009

US News and World Report

• With the Centers for Disease Control and Prevention reporting approximately 44,000 cases of swine flu and at least 114 pediatric deaths since April, schools across the country are considering how to deal with a mass outbreak.

What to Do if H1N1 Hits Your Kid’s School, CBS News, October 31, 2009

E-Learning’s Potential Scrutinized in Flu Crisis, Education Week, Katie Ash & Michelle R. Davis, May 12, 2009

• Work on a crisis plan
• Use online resources
• Evaluate the telecommunications infrastructure
• Make sure teachers are prepared

CDC’s Swine Flu Toll: 4,000 Dead
November 13, 2009

Hundreds of Miami County residents stand in line in a shuttered department store at the Miami Valley Centre Mall in Piqua, Ohio on Nov. 2 to get the county’s first doses of H1N1 vaccine.


How Schools and Parents Can Prepare for Swine Flu

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US News and World Report

• "This is fairly revolutionary," says Cable Green, e-learning director for the Washington State Board for Community and Technical Colleges. "Had this happened five or 10 years ago, we'd probably say, 'School is closed, see you in three weeks.'"
How Schools and Parents Can Prepare for Swine Flu

Here are tips for parents and schools to keep children healthy and engaged in their learning. Zach Miller, November 2, 2009
US News and World Report

- At Gwinnett County Public Schools near Atlanta, a plan is in place to make courses available to students through the online software company Elluminate...the county hopes to be ready in the event of a mass swine flu outbreak and will use as many technology tools as possible to ensure a continuity of learning.

How Schools and Parents Can Prepare for Swine Flu (continued...)

Strategies could be built around anything:
1. Take-home course packets
2. Online materials
3. Listservs
4. DVD and MP3 players
5. Conference calls
6. Internet-based, webinar-style classes

What can you do? (EdWeek.org)

- Post syllabus and content online
- E-books and other resources
- Fully online courses
- Phone conferencing (e.g., Skype, Google Talk, VOIP)
- Web conferencing
- Learning management systems to track progress

What can you do? (EdWeek.org)

- Videotape master teachers
- Learning packets to be sent home
- Check out laptops to younger students
- Phone hotline for homework
- Interactive study guides online
- Online grading and assignment-posting programs
- Online resources, textbooks, instructional websites, online databases, and Google Docs

What can you do? (EdWeek.org)

- Post assignments
- Develop plan for file or assignment uploading and downloading as well as a system for feedback
- Develop plan for hard copies of assignments for students lacking computer access

What Can You Do?

- Elementary: Use website, cable TV programming, create teaching videos to show over TV, blogs, wikis, email to communicate.
- Middle School: add Twitter for district messages.
- High School: add laptops to take home, Blackboard to teach online.
Recorded class meetings
Are there contingency plans to incorporate captioned close-circuit, public television, Web-based tools, or cable channels to deliver live or pre-recorded lessons?

Teacher check-ins and tutorials
Have plans been created with teacher input for teachers to conduct telephone conferences with students, parents, or guardians to review student progress, assignments, as well as provide tips for building structured learning time at home?

Blending Online Is the Solution!
- “Blended learning refers to events that combine aspects of online and face-to-face instruction” (Rooney, 2003, p. 26; Ward & LaBranche, 2003, p. 22)

http://www.sloan.org/resources/sizing_opportunity.pdf

<table>
<thead>
<tr>
<th>Percentage of institution online</th>
<th>Type of course</th>
<th>Typical description</th>
</tr>
</thead>
<tbody>
<tr>
<td>40% Traditional</td>
<td>Courses with online technology added (usually in fall or spring)</td>
<td></td>
</tr>
<tr>
<td>1 in 4</td>
<td>Web-enhanced</td>
<td>Courses which utilize Web-based technology in delivery, which may include Web-based assessments and resources, typically do not replace classroom instruction</td>
</tr>
<tr>
<td>1 in 10</td>
<td>Blended</td>
<td>Courses that are a mix of the online and face-to-face course, indicates properties of both classroom and distance online modules which are delivered online hybrid (hybrid online as well as face-to-face meetings)</td>
</tr>
<tr>
<td>Rare</td>
<td>Online</td>
<td>Courses where more than half of the control is delivered online, typically has no face-to-face meetings</td>
</tr>
</tbody>
</table>

Who is demanding fully online and blended learning?

Fully Online and Blended Learning Advantages
1. More time to reflect
2. Increased Learning (better papers, higher scores)
3. More effective pedagogy and interaction
4. Convenient and flexible
5. Lower costs
6. Increased human interaction and communication
7. Introverts participate more
Part II: 10 Teaching Problems and 40 Blended Learning Solutions

Problem Situation #1: Many Students are Missing
- There is an outbreak of the swine flu, SARS, etc., or natural disaster like a flood, hurricane, earthquake, blizzard, tsunami, etc.

Blended Solution #1. Webinars (Elluminate, Dindim, WebEx, Adobe Connect Pro)

Blended Solution #2. Public TV; e.g., Mongolia teachers addressing H1N1 (Ohto Khididi, Nov 10, 2009)
**Blended Solution #3.**
Create Online Class Space for H1N1 (e.g., Microsoft Office Live, Google Sites)

- **Microsoft**: Office Live Workspace, free of charge to educators; its web site to Office Live Workspace and H1N1, includes videos and how-to tips to help teachers quickly and easily set up an Office Live classroom page.
  
  **class workspace:**
  - Teachers share content, lesson plans, and curriculum.
  - Students access general classroom workspace, or use an individual workspace; can comment and chat with each other on discussion topics, virtual presentations, and other materials. The virtual classroom spaces include file storage.

**Blended Solution #4.**
Streaming Class Video for Remote Students (e.g., Tegrity, Univ of Central Florida)

Within a single semester, more than 2,300 UCF students and 80 faculty members were using Tegrity Campus 2.0, making classes available to every student in the college, anytime.

**Problem Situation #2:**
Typical Student Absenteeism

- Students miss class to attend a conference or event or a personal problem arises. Or students asks to watch the class a second time.

**Blended Solution #5.**
Class Site (e.g., Google Sites)

Google sites

- **Thinking of creating a website?**
- **Google Sites** is a free and easy way to create and share websites. **Learn more**

- Create rich web pages easily
- Collect all your files in one place
- Control who can view and edit

Next: Create a site from dozens of pre-built templates

**Blended Solution #6. Wiki**
Collaboration Site (e.g., Wikispaces)

Wikis for Everyone

- Get help creating sites with unlimited usage and our stellar visual editor, check our plans, and pricing, and let us why your classroom call us.

- New: Live chat with over 1,400,000 members and 1,300,000 wiki!

**Private Label**
Web Solutions for Organizations

Educators, students, more.
Problem Situation #3: Web Supplemental Activities

• Fail to finish class discussion or other activity in time. Or desire to integrate the Web more in your face-to-face instruction or outside of class. Want to provide course resources and activities for students to explore.

Companies help schools survive swine flu, eSchool News, Sept., 16, 2009

Users of Curriki can create collections of open educational resources, along with repositories of other supplemental content, the site’s creators said. States and school districts can take advantage of customized landing pages designed to provide specific information, news, resources, and links to their education stakeholders.

Blended Solution #7. Use Open Educational Resources National Flu Readiness Initiative Taps Curriki for E-Learning, Educ: Week, Katie Ash on August 28, 2009


Blended Solution #10. Practice Skills (e.g., A Grain of Rice)
Blended Solution #11. Online Reading Programs (See free-Reading.net)

Blended Solution #12. Online ReferenceWare

Blended Solution #13. Visual Resources (e.g., Periodic Table of Visualization; Visual Thesaurus)

Blended Solution #14. Use Free Shared Online Videos Lessons (How-to lessons from experts: 1,000's of instructional videos and articles; http://www.tvlesson.com/)

Blended Solution #15. Online Portal & Resource Explorations (Encyclopedia of Life, history, science, poetry, literature, etc.)

Blended Solution #16. Science Portals (e.g., Complete Works of Charles Darwin, Einstein, etc.)
Blended Solution #17. Species Portals
Is a translational species; 67-Million-Year-Old Darwinian Maasailand Fossil the Missing Link? (worldcow, May 30, 2009)

Blended Solution #18. Science Live
(Live Internet Thawing of Colossal Squid)

Blended Solution #19. Online English Literature
(e.g., The Carlyle Letters Exploring Victorian World
Through Letters and The Diary of Samuel Pepys)
(Great Plagues, Great Fire, Charles Dickens, Beatrix Currin, Mary
Wollstonecraft Shelley, Robert Browning, John Stuart Mill, Ralph Waldo
Emerson, Elizabeth Barrett Browning, and Alfred Tennyson)

Problem Situation #3:
Collaborative Skill Deficit
- Students need collaboration and teamwork skills. Want to build
  virtual teaming skills in class activities or work with learners
  in other locales or situations.

Problem Situation #4:
Student Reflections and Connections
- Students are not connecting content. They are just turning
  pages and going through the motions. Minimal student
  reflection is seen.

Blended Solution #20.
Paired Article Critiques in a Blog
- Students sign up to give feedback on each
  other's article reviews posted to their blogs.

<table>
<thead>
<tr>
<th>Article</th>
<th>Student Critique</th>
<th>Student Peer Review</th>
</tr>
</thead>
<tbody>
<tr>
<td>When the Boulevard Ends: A Modern Romance of America</td>
<td>Carlos</td>
<td>Jack</td>
</tr>
<tr>
<td>Life</td>
<td>Jack</td>
<td>Ted</td>
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<tr>
<td>John</td>
<td>Sandra</td>
<td>Carlos</td>
</tr>
<tr>
<td>From the Other Side of the Mirror</td>
<td>Sandra</td>
<td>Carlos</td>
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<tr>
<td>He</td>
<td>Carlos</td>
<td>Ted</td>
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<tr>
<td>The End of the World</td>
<td>Sandra</td>
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</tr>
</tbody>
</table>

11/22/2009
Problem Situation #5: Learning Community
- There is a preference for creating an online learning community in order to increase student learning and retention in the program. Such a community might be in a single class or across a series of classes.

Problem Situation #6: Need to Visualize Content
- Content is highly visual in nature and difficult to simply discuss in class. Or students have a preference for visual learning.

Blended Solution #24. Videos of the Periodic Table
(University of Nottingham)
Blended Solution #25. Flash, 3-D Visualization, & Laboratory Software

Blended Solution #26. Shared Online Videos for Anchoring or Ending Instruction (find anchoring event in YouTube, CNN, BBC, TeacherTube, CurrentTV)

Blended Solution #27. Explore Online Human Body and Museum Exhibits

Blended Solution #28. Adventure Learning (e.g., Alan Doering, Discovery Channel)

Blended Solution #29. Religious, Political, and Historical Video Portals (e.g., YouTube and the Royal Channel)

Blended Solution #30. Individual Produced Videos (e.g., African School Dream in Current TV)
Problem Situation #7: Need for Hands-On Learning

- To learn the material requires that students try it out in a lab or real-world situation. Or students prefer hands-on learning activities.

Poll #4: Which of the following resources from the Wikimedia Foundation have you used (check all that apply)

1. Wikibooks
2. Wikicommons
3. Wikinews
5. Wikiquote
6. Wikisource
7. Wikispecies
8. Wikiversity
9. Wiktionary

Poll #32: Using Online Video (e.g., YouTube) to Memorize Sonnets and Poems

Blended Solution #31.
Link TV & Fora TV

Poll #5: Which shared online video resources have you used or seen used in teaching? (check all that apply)

1. BBC News Video and Audio
2. CNN.com Video
3. Current TV
4. Fora TV
5. Google Video
6. Link TV
7. MIT World
8. MSNBC.com
9. NASA TV
10. TeacherTube
11. YouTube
12. YouTube Edu
Blended Solution #34. WikiBook and Wikipedia Editing

- Ask students to edit a page from Wikipedia or a chapter in a wikiBook.
- The write a reflection paper on it.

Problem Situation #8: Preference for Auditory Learning

- The content is heavily verbal or words. Or students have a preference to listen to a lecture or hear an instructor deliver a lecture.

Blended Solution #35. Explore Virtual Worlds and Online Representations (UCLAs CVRLab, University of Virginia)

Blended Solution #36. Podcasts of Famous Literature (e.g., Shakespeare)
ShakespeareCast.com: students can listen to podcasts of famous literature and reflect on it.

Blended Solution #37. Online Language Learning: Practice (ECpod, Mixxer, Livemocha, KanTalk)

Blended Solution #38. Self-Paced Language Programs: Listen (JapanesePod, SpanishPod, Arabic online)
Problem Situation #9: Lack of Instructor Presence

- Students need to see or hear from the instructor. They need a sense that the instructor is supporting their learning. They prefer face-to-face but are willing to try online.

Blended Solution #39. Tutorials with Screen Capture (e.g., Jing, Screencast)

Blended Solution #40. Experts and Scientists (e.g., Exploratorium-Sponsored Ice Stories Project from Antarctica)

Trends and Challenges for Blended Learning

1. Teachers and students are more mobile.
2. Students more choices.
3. Student expectations rise.
6. Courses increasingly modular.
7. Less predefined schedules.
8. When teaching less clear; when learning less clear.

Poll #4: How many ideas did you get from this talk?

1. 0 if I am lucky.
2. Just 1.
3. 2, yes, 2...just 2!
4. Do I hear 3? 3!!!
5. 4-5.
6. 5-10.

Questions and Comments

Note: Bonk papers and talks at:
http://www.publicationshare.com/
http://www.trainingshare.com/