

200 Innovative, Interactive, and Easy to Implement Instructional Ideas for FTF, Blended, and Fully Online Courses

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Professor, Indiana University**



Technology of the 1980s



Radio Shack TRS-80 Model III
 Introduced: July 1980
 Price: US \$699 base model
 US \$2495 w/ 20K dual drives.
 CPU: Z80 @ 2.80, 2.03 MHz
 RAM: 4K, 48K max.
 Ports: Cassette tape, expansion, serial
 Display: 12-inch BW monitor, 84 x 18 text
 Storage: 0, 1, or 2 internal 1.78K floppy drives
 External cassette @ 500 11500 baud
 OS: BASIC in ROM, TOS-COS on disk



Things That Became Obsolete This Decade

December 11, 2009, Silicon Alley Insider



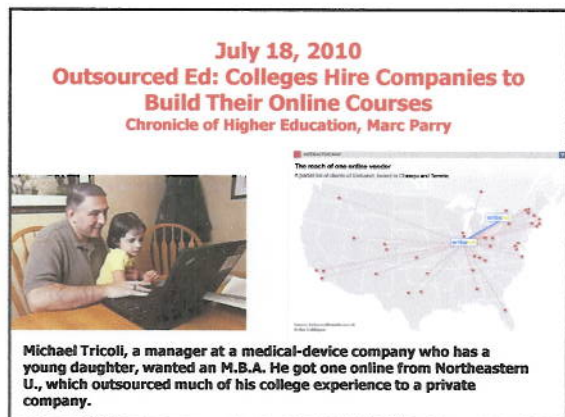
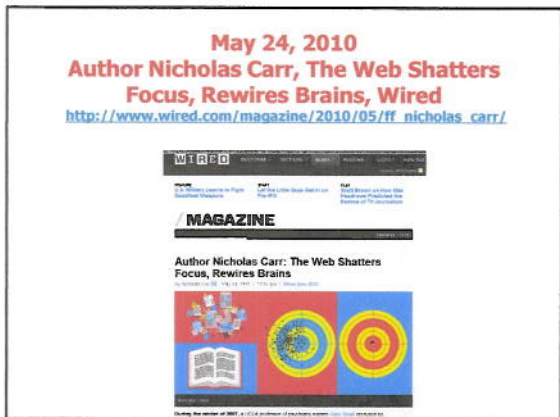
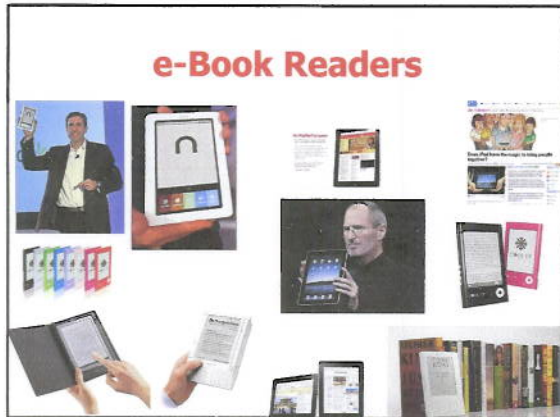
Gadgets that Changed Everything This Decade

December 9, 2009, Jay Yarow, Silicon Alley Insider



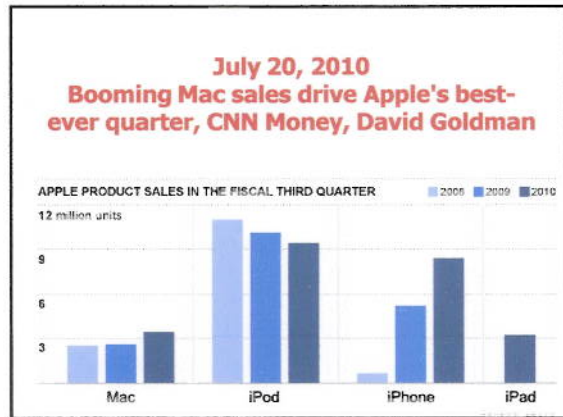
New technologies hit us everyday!





July 19, 2010
"Lost" Languages to Be Resurrected by Computers?
New program can translate ancient Biblical script,
National Geographic, Tim Hornyak

The screenshot shows the National Geographic Daily News website. The main article is titled "Simple computer program decodes lost Biblical language". It features a large image of ancient script on a scroll. The article text is partially visible, mentioning that the program can translate ancient script.



July 21, 2010
Status update: Facebook logs 500 million
members, USA TODAY, Kristin McGrath

The screenshot shows a USA Today article titled "Status update: Facebook logs 500 million members". It includes a sub-headline "Online community grows into worldwide presence" and a "facebook" logo. The article features a bar chart showing the growth of Facebook's user base over time.

July 23, 2010
Online Course Construction Gets a 'Do-It-
Yourself' Web Site, Sophia Li, Chronicle of
HE, Nixty (<http://nixty.com/>)

The block contains two screenshots. On the left is the "Wired Campus" section of The Chronicle of Higher Education website, featuring an article about online course construction. On the right is the Nixty website, which is a "do-it-yourself" web site for creating online courses.

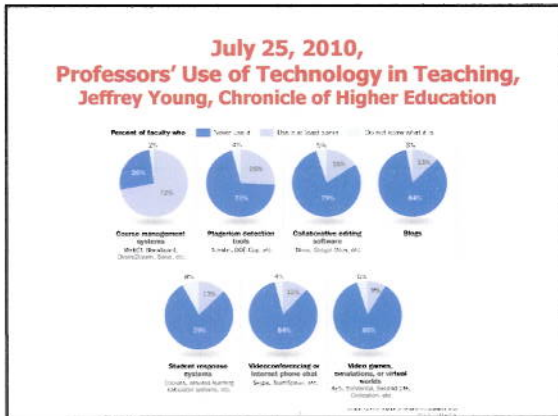
July 23, 2010
India unveils \$35 computer for students,
CNN World, Harmeet Shah Singh

<http://www.cnn.com/2010/WORLD/asia/07/23/india.nixty.free.dollar.laptop/index.html?opt=HP1&hst=Skin>
<http://www.cnn.com/video/#/video/asia/2010/09/01/india.free.laptop.cnn/?at=12>

The screenshot shows a CNN World article titled "India unveils \$35 computer for students". It features a photograph of a man holding a small, low-cost laptop. The article text is partially visible, mentioning the program's goal to provide affordable computers to students.

July 24, 2010
Reaching the Last Technology Holdouts at
the Front of the Classroom,
Jeffrey Young, Chronicle of Higher Education
<http://chronicle.com/article/Reaching-the-Last-Technology/123659/>

The image shows a person's hands using a computer mouse and keyboard in a classroom. The monitor displays a video of a man speaking, likely related to the article about reaching technology holdouts in the classroom.



July 28, 2010 Web 2.0: 3 for 3. Ed Tech Experts Choose Top Tools, Which web 2.0 tools are best suited for enabling collaboration in teaching and learning? A trio of ed tech experts offer up their top three choices apiece Jennifer Demski, Campus Technology <http://thejournal.com/Articles/2010/08/01/3-for-3.aspx?p=1>

July 29, 2010 Amazon unveils 3rd-generation Kindle e-book reader, USA Today, Edward C. Baig

July 29, 2010 Volume of Kindle book sales stuns Amazon's Jeff Bezos; USA Today, By Edward C. Baig

Jeff Bezos predicts Kindle e-book sales "will surpass paperback sales sometime in the next nine to 12 months."

August 1, 2010 Is India's \$35 iPad knockoff for real? CNN's Fareed Zakaria says it could change the world, CNN Video <http://www.cnn.com/india/fareedzakaria/2010/08/01/asia.last.lock.ipad.cnn.html?hpt=hp2>

August 2, 2010 Time spent on Facebook, Twitter, YouTube grows, USA Today, Jon Swartz.

http://www.usatoday.com/tech/news/2010-08-02-networking02_ST_N.htm

Time spent on Facebook, Twitter, YouTube grows

Social-network scope expands

Yearly change in share of U.S. internet time for most heavily used sites:

Social networks/blogs	43.0%
Games	10.0%
E-mail	28.0%
Portals	19.0%
Instant messaging	-15.0%
Videos/movies	12.0%
Search	1.0%
Software info	-0.1%
Multimedia	-7.0%
Classifieds/auctions	-2.0%

1-1000 2009 to 2009; Source: Statista

August 2, 2010 iPad, other high-tech gadget trends differ by region, USA Today, David Lieberman




New York Mayor Michael Bloomberg works on his iPad while waiting for a subway on July 14.

August 2, 2010 iPad, other high-tech gadget trends differ by region, USA Today, David Lieberman

- **Retrevo** cut more than 7,500 people about their tech tastes. The results, calculated to show how sales per household in a region compare to the national average, show differences as distinct as accents and cuisines.
- **iPads**. **New York** state beats the U.S. average by 52% for owning Apple's new tablet computer.
- **That surprised Rathi**: "We expected California," Apple's home and a tech epicenter, to lead.
- **But Apple's** popular in the **Big Apple** among the rich and fashion-conscious, including those in the media and ad industries being reshaped by such devices.
- **Rathi also notes** that "more people use public transportation" in **New York**, giving them time to use iPads to read, watch videos or catch up on e-mail.
- **e-Readers**. **Massachusetts** residents are 49% more likely than average to own a dedicated digital reader. Here, too, Rathi sees the logic: The state has lots of readers at its many prestigious colleges, including Harvard, Amherst and Brandeis.
- **HDTV**. Some results mystify Rathi, though, including the data that show **Maryland** has the highest concentration of high-definition TV sets, at 13% ahead of the national average.
- **Point-and-shoot cameras**. This is another head-scratcher. **Michigan** is on top, with 9% more point-and-shoot camera owners than elsewhere — narrowly beating Maryland.
- **Laptop computers**. **Colorado** residents are 13% more likely to have a portable computer, **Retrevo** finds, putting it slightly ahead of Georgia and Minnesota.
- **While California** wasn't highest in any of Retrevo's state tallies for product sales, it was the most eco-friendly: Residents were 47% more likely to have recycled an electronic device in the past year.

August 3, 2010 Can the Internet lower college costs, Larry Dignan, Smarter Planet

<http://www.smartplanet.com/business/blog/smart-planet/can-the-internet-lower-college-costs/9511/>



August 5, 2010 The Open, Social, Participatory Future of Online Learning

By Marc Parry, Chronicle of Higher Education

Wired Campus

By Marc Parry


The Open, Social, Participatory Future of Online Learning



Medium, 10/10 - Education has never been more open and more participatory than it is today. The 20th-century model of education, based on a single teacher in a classroom, is being replaced by a more open, social, and participatory model. This is the future of education, and it is being shaped by technology.



August 5, 2010 Remaking the College Campus, Bridget McCrea, Campus Technology

<http://campustechnology.com/Articles/2010/08/05/Remaking-the-College-Campus.aspx?Page=1>




August 5, 2010
Remaking the College Campus,
Bridget McCrea, Campus Technology
<http://campustechnology.com/Articles/2010/08/05/Remaking-the-College-Campus.aspx?Page=1>

- "College campuses are being strategically planned to create more of that 'Barnes and Noble-type' atmosphere, where cafés really get students socializing around technology," said Bonk, who visited the Saltire Center to see for himself what all the hoopla was about. While there, he said he was particularly impressed by how the environment changed from floor-to-floor.
- "The first level was a café, where students could socialize and study, and the next floor was created for a more team-based type of collaboration," explained Bonk. "The third level was for individual reflection and study, while the fourth centered around student counseling and advice. It was pretty neat to see how each floor stood for a different interaction."


August 5, 2010
Remaking the College Campus,
Bridget McCrea, Campus Technology
<http://campustechnology.com/Articles/2010/08/05/Remaking-the-College-Campus.aspx?Page=1>

- Whether this type of "redesign the campus around technology" fever catches on at other universities will depend on budgeting and also on the ability of leaders to see the value in creating spaces that embrace technology, socialization, and collaboration.
- "New buildings must be constructed in a way that factors in how learning is fostered in an environment where myriad technologies are integrated," said Bonk. "Getting there means universities will have to rethink how they spend money on construction, technology, and student support."
- Expect that transformation to take place slowly as universities and colleges realize that building bricks-and-mortar to house traditional, lecture-type classes is no longer enough to support the tech-savvy student.
- "We're seeing the need for less seat time, thanks to online and blended learning," said Bonk, "both of which require a different approach to design and space usage than colleges are used to."



August 8, 2010
Mass Video Courses May Free Up Professors
for More Personalized Teaching
 By Marc Parry, Chronicle of Higher Education

Most striking of all is what this plan could mean for professors. "The real payoff is in the additional faculty time it frees up for one-on-one instruction," Mr. Conley writes in the paper. "Rather than have to pay our research faculty to stand in front of a room and teach the same classes over and over (after all, when's the last time Calculus I really changed?), with one fewer course to teach, they can now take on the role of faculty curators."


August 8, 2010
Mass Video Courses May Free Up Professors for More Personalized Teaching
 By Marc Parry, Chronicle of Higher Education

NYU Opens Up Online

These are the first courses that New York University plans to put online as part of its free open-courseware project.

- American Literature I (Instructor: Cyrus Patell)
- Calculus I (Instructor: Kiyi Tsishchanka)
- Genomes and Diversity (Instructor: Mark Siegal)
- Introduction to Sociology (Instructor: Harvey Molotch)
- The Body: How It Works (Instructor: Burt Goldberg)
- Human Genetics (Instructor: Justin Blau)
- New York City: Social History (Instructor: Daniel Walkowitz)
- Statistics for the Behavioral Sciences (Instructor: Elizabeth Bauer)
- World Cultures: Ancient Israel (Instructor: Daniel Fleming)

August 9, 2010
First Church of Robotics, The New York Times, Jason Lanier
http://www.nytimes.com/2010/08/09/opinion/09lanier.html?_r=1



"But the rest of us, lulled by the concept of ever-more intelligent A.I.'s, are expected to trust algorithms to assess our aesthetic choices, the progress of a student, the credit risk of a homeowner or an institution. In doing so, we only end up misreading the capability of our machines and distorting our own capabilities as human beings. We must instead take responsibility for every task undertaken by a machine and double check every conclusion offered by an algorithm, just as we always look both ways when crossing an intersection, even though the light has turned green."


August 9, 2010
Bill Gates Predicts Technology Will Make 'Place-Based' Colleges Less Important in 5 Years, Jeff Young, Chronicle of HE
<http://chronicle.com/blogPost/Bill-Gates-Predicts-Technology-Will-Make-Place-Based-Colleges-Less-Important-in-5-Years-2010/08/09/>

Wired Campus

Bill Gates Predicts Technology Will Make 'Place-Based' Colleges Less Important in 5 Years
 by Jeff Young

What kind of college are you going for, home-based learning or the learning made in the lecture hall, and the Harvard founder Bill Gates at a conference on Friday.

Bill Gates on in-person vs. online edu...



0:04 / 2:58

August 9, 2010
Bill Gates Predicts Technology Will Make 'Place-Based' Colleges Less Important in 5 Years, Jeff Young, Chronicle of HE
<http://chronicle.com/blogPost/Bill-Gates-Predicts-Technology-Will-Make-Place-Based-Colleges-Less-Important-in-5-Years-2010/08/09/>

"Five years from now on the Web for free you'll be able to find the best lectures in the world. It will be better than any single university," he argued at the [Technomy conference](#) in Lake Tahoe, Calif. "College, except for the parties, needs to be less place-based."

August 9, 2010
Indiana Launches Western Governors University Program. Diverse: Issues in Higher Education, Jamal Eric Watson
<http://diverseeducation.com/article/14023/indiana-launches-western-governors-university-program.html>

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August 9, 2010
Indiana Launches Western Governors University Program. Diverse: Issues in Higher Education, Jamal Eric Watson
<http://diverseeducation.com/article/14023/indiana-launches-western-governors-university-program.html>

- Officials at Western Governors University — the nation's only nonprofit online university headquartered in Salt Lake City — say a new partnership with Indiana will likely result in thousands of the state's minority students obtaining a college degree.
- In June, WGU — founded in the late 1990s with the goal of helping adult learners earn a college degree — established a presence in Indiana. The move was petitioned by legislators looking to find creative ways to promote educational opportunities, particularly among minority adults who trail far behind their White counterparts in earning college degrees. According to state census figures, Whites in Indiana are three times more likely than Blacks to hold a college degree.
- WGU is a competency-based university that caters to adult learners and rewards credit for work experience and helps cater to students who are too busy to attend traditional college classes, says WGU Indiana Chancellor Allison Barber.
- "Our model is customized to really help adult learners who are from rural communities, first-generation and minorities to earn a college degree," says Barber, who adds that students from underrepresented backgrounds account for 50 percent of WGU's student population. "We provide a flexible and affordable option that works well with our adult learners."
- The new collaboration between Indiana and WGU allows state money to cover financial aid for Indiana residents who enroll at the university. The Lumina Foundation for Education and the Bill & Melinda Gates Foundation will front the dollars to support the initial costs.

August 9, 2010
Indiana Launches Western Governors University Program. Diverse: Issues in Higher Education, Jamal Eric Watson
<http://diverseeducation.com/article/14023/indiana-launches-western-governors-university-program.html>

- "WGU Indiana is a great example of the innovative thinking that is very much needed in higher education today," says Lumina President Jamie Merisotis. "Its online, competency-based approach to learning shows great promise as a cost effective model for delivering quality higher education."
- Indiana Gov. Mitch Daniels, a member of WGU's Board of Trustees, has championed the partnership as "Indiana's eighth state university" and says states have to think outside of the box when it comes to educating their work force.
- "WGU Indiana will fill the clearest and most challenging gap remaining in our family of higher education opportunities: helping thousands of adult Hoosiers attain the college degrees they've always wanted and needed, on a schedule they can manage (and) at a cost they can afford," he says.
- The tuition to attend WGU Indiana will be about \$3,000 over a six month period, says Barber, who adds that there is no restriction on how many credits student can take during that period. Barber says when students enroll at the university, they are assigned a mentor who tracks their progress and most graduate within 2.5 years.

August 9, 2010
Indiana Launches Western Governors University Program. Diverse: Issues in Higher Education, Jamal Eric Watson
<http://diverseeducation.com/article/14023/indiana-launches-western-governors-university-program.html>

- This all makes sense to Dr. Curtis J. Bonk, a professor in the Department of Instructional Systems Technology at Indiana University and one of the nation's leading experts on distance learning.
- "There are hundreds of thousands of people in the state of Indiana who have some college but never finished and many of them are minorities," says Bonk. "Western Governor's University is providing a little niche and it makes a lot of sense to me."
- Bonk points to educator Peter Smith's book, *Harnessing America's Wasted Talent: A New Ecology of Learning*, as an innovative approach to rewarding individuals for choosing jobs over finishing their degrees in a traditional four-to-five-year period.
- "Many people want their degrees but they just don't have the time capabilities," says Bonk, adding that WGU will "provide hope and a skill set that Indiana and other states need to get so many workers out of part-time jobs and into full-time employment."

August 10, 2010

Can college students learn as well on iPads, e-books?, USA Today, Beth Marklein

http://www.usatoday.com/news/education/2010-08-10-ebooklearning10_CV_N.htm?csp=hp

The image shows a screenshot of a news article from USA Today. The headline is 'Can college students learn as well on iPads, e-books?' by Beth Marklein. The article discusses the use of iPads and e-books in college classrooms. A photograph shows a young man in a white shirt holding an iPad and looking at the screen.

August 10, 2010

Flipboard pretties up social-media updates Facebook statuses and tweets feed into magazinelike format in free app for iPad

Jefferson Graham, USA TODAY

http://www.usatoday.com/printedition/money/20100811/flipboard11_st-art.htm

The image shows two people holding iPads. The screens display the Flipboard app, which aggregates social media updates from Facebook and Twitter into a magazine-like format. The interface features large, colorful images and text snippets.

August 16, 2010

A Framework for Teaching with Twitter, Mark Sample, Chronicle of Higher Education

The image is a diagram titled 'A Framework for Teaching with Twitter' by Mark Sample. It features a central table with four columns: 'Design', 'In-class Back Channel', 'Outside of Class Discussion', and 'Grades Revised Discussion'. The 'Design' column lists 'Design' and 'Strategies'. The 'In-class Back Channel' column lists 'Design' and 'Strategies'. The 'Outside of Class Discussion' column lists 'Design' and 'Strategies'. The 'Grades Revised Discussion' column lists 'Design' and 'Strategies'. Arrows indicate relationships between the columns and the overall framework.

What's Next? Mobile Exercise Learning

The image shows a person standing on a treadmill in a modern, well-lit room. They are using a laptop computer on a desk attached to the treadmill. This illustrates the concept of 'Mobile Exercise Learning'.

Today we have the Web 2.0

The image is a collage of logos for various Web 2.0 services. The logos include LiveJournal, Google, Facebook, Ning, PBworks, Slideshare, Blogger, and Photobucket. The text 'Today we have the Web 2.0' is prominently displayed at the top.

Poll #1: Who finds it hard to keep track of all the technology-related changes today???

Accelerate Learning

The image shows the cover of the book 'TechTrends: Accelerate Learning' by Springer. The cover features a person reading a book and a hand holding a red and yellow object. The text on the cover includes 'TechTrends', 'Accelerate Learning', and 'Teach the Modern Way!'. The Springer logo is at the bottom left.

Poll #2: Who is sometimes frustrated???



It's Nature (i.e, technology) and Nurture (i.e., pedagogy)!



Masterclass Part 1: Online Motivation with the TEC-VARIETY Model

Dr. Curtis J. Bonk
Professor, Indiana University
<http://php.indiana.edu/~cjbonk>,
cjbonk@indiana.edu

We are not motivating students with the technologies that they love



What if kids minds were on fire for learning? (Educause Quarterly, Jan-Feb 2008)

A Circle of Knowledge Building and Sharing

Open Knowledge Exchange Zone
 Provide venues for sharing resources and evidence for ongoing practice.

Use
 Encourage students to create, critique, and make their peers' sophisticated knowledge.

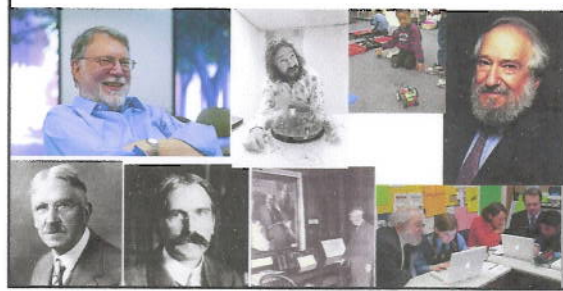
Re-mix
 Enable teachers to integrate, refine, and expand on their knowledge.

Promote these organically & sustainably

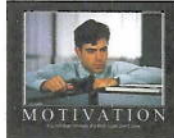
From the Mind 2.0 to Learning 2.0

MINDS FIRE

John Dewey, Seymour Papert, John Seely Brown



Jumbo Motivation is Needed!



Intrinsic Motivation

"...innate propensity to engage one's interests and exercise one's capabilities, and, in doing so, to seek out and master optimal challenges

(i.e., it emerges from needs, inner strivings, and personal curiosity for growth)

See: Deci, E. L., & Ryan, R. M. (1985). *Intrinsic motivation and self-determination in human behavior*. NY: Plenum Press.



Ok, Million Dollar Question: How do you motivate online learners? What Words come to mind?



Motivation Research Highlights (Jere Brophy, Michigan State University)

1. Supportive, appropriate challenge, meaningful, moderation/optimal.
2. Teach goal setting and self-reinforcement.
3. Offer rewards for good/improved performance.
4. Novelty, variety, choice, adaptable to interests.
5. Game-like, fun, fantasy, curiosity, suspense, active.
6. Higher levels, divergence, dissonance, peer interaction.
7. Allow to create finished products.
8. Provide immediate feedback, advance organizers.
9. Show intensity, enthusiasm, interest, minimize anxiety.
10. Make content personal, concrete, familiar.



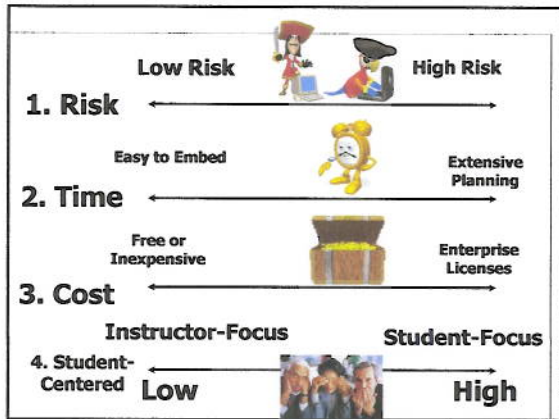
I even reflected on this for a moment...and then something magical happened...



Magic #1: TEC-VARIETY Model for Online Motivation and Retention

1. Tone/Climate: Psych Safety, Comfort, Belonging
2. Encouragement, Feedback: Responsive, Supports
3. Curiosity: Fun, Fantasy, Control
- ...
4. Variety: Novelty, Intrigue, Unknowns
5. Autonomy: Choice: Flexibility, Opportunities
6. Relevance: Meaningful, Authentic, Interesting
7. Interactive: Collaborative, Team-Based, Community
8. Engagement: Effort, Involvement, Excitement
9. Tension: Challenge, Dissonance, Controversy
10. Yields Products: Goal Driven, Products, Success, Ownership






1. Tone/Climate: Social Ice Breakers

A. Public Commitments:
Have students share how they will fit the coursework into their busy schedules




B. Favorite Websites

- Everyone posts 1-2 of their favorite Websites and explain why.
- Peers comment on or rate them.



1. Tone/Climate: C. Video Course Intros
(examples from Northern Virginia Community College and Indiana University KD (online MBA) program)
Yun Yun Chow, Open U Malaysia, Making Art Lessons Come Alive with Web 2.0
<http://www.youtube.com/watch?v=BO9rqJD1GXo>



2. Encouragement, Feedback, etc.:

A. Online Self-Testing (e.g., self study in vocabulary, anatomy, chemistry, dissection, etc.)

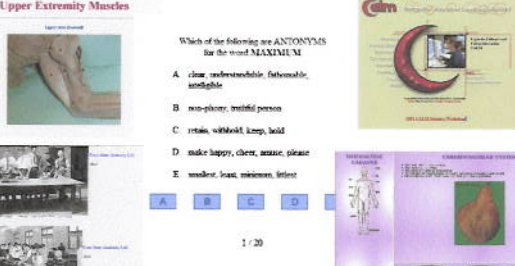
Upper Extremity Muscles

Which of the following are ANTONYMS for the word MAXIMUM?

- close, undetectable, fathomable, weightless
- non-phoney, initial person
- retain, withhold, keep, hold
- make happy, cheer, amuse, please
- weaker, least, minimum, lesser


A B C D

1 / 20



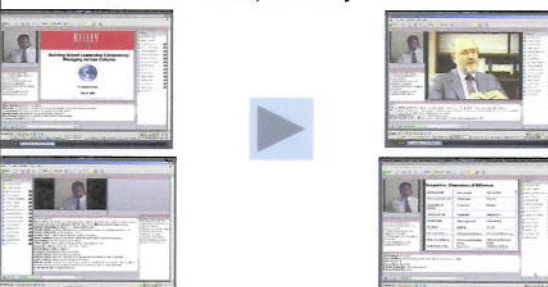
2. Encouragement, Feedback, etc.:

B. Tutorials with Screen Capture
(e.g., Jing, Screencr)




2. Encouragement, Feedback, etc.:

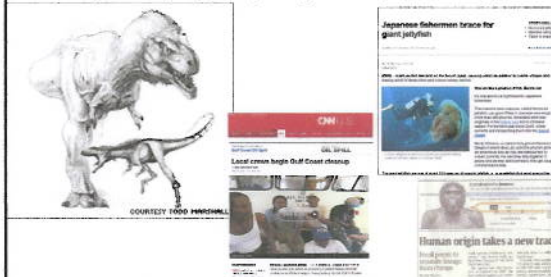
C. Instructor Presentation in Synchronous Sessions (Breeze/Adobe Connect Pro, Elluminate, WebEx, Dim Dim)




2. Encouragement, Feedback, etc.:
C. Video Scenario Learning Forensic Accounting Interviews (interpret both the verbal and the nonverbal communication), Franklin University
<http://video.franklin.edu/Franklin/acct/342/common/fraudScenario02.html>




3. Curiosity, Fun:
A. Online News (Giant jellyfish, Tiny T. rex, and Ardi)




3. Curiosity, Fun: B. Online Games (e.g., public health; the POD game Points-of-Dispensing (PODs))



3. Curiosity, Fun: C. Multimedia Documents (e.g., Adding voice to email, docs with Yack Pack, VoiceThread, etc.)



3. Curiosity, Fun: D. WolframAlpha (access knowledge)
<http://www.wolframalpha.com/>



3. Curiosity, Fun: E. Solo Sailing (e.g., Michael Perham & Zac Sunderland, Summer 2009 (each age 17, youngest person to sail solo around the world...meet Minoru Saito, age 75, oldest solo sailor))



May 2010, Jessica Watson became the youngest person ever to sail solo, non-stop and unassisted around the world.



Abby Sunderland's blog


3. Curiosity, Fun: F. Videoconference
 (e.g., Global Nomads Group, Int'l Studies for Indiana Schools (i.e., ISIS); Mandarin Chinese, Niger, Sudan, Life in Eastern Europe Today (Bulgaria), History and Culture of Mexico)



3. Curiosity, Fun: G. Oceanographer touts deep sea web surfing (e.g., Nautilus Live allows people to not only learn about the expeditions but watch them live and listen to the scientists in the control rooms as discoveries are made, eSchool News, June 2010)




3. Curiosity, Fun: H. Virtual Tours and Field Trips



4. Variety, Novelty:
A. Cool Resource Provider or Tech Demos

- Have students sign up to be a cool resource provider once during the semester.
- Have them find additional paper, people, electronic resources, etc.
- Share and explain what found with class.

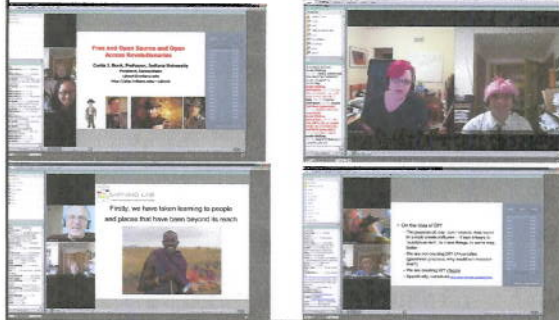


4. Variety, Novelty:
B. Expert Chats

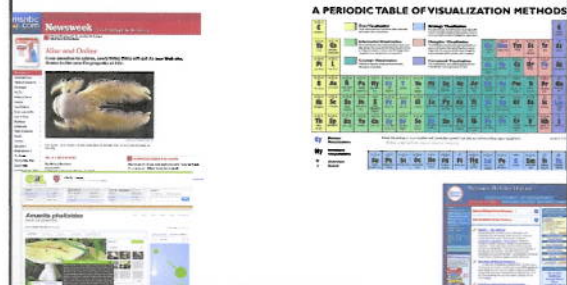
1. Agree to a weekly chat time.
2. Bring in expert for discussion or post discussion topics or issues.
3. Summarize or debrief on chat discussion.



4. Variety, Novelty: C. Synchronous Session with Guest Expert



4. Variety, Novelty: D. Online Referenceware



Arlington Racetrack



Jockey's are Important



5. Autonomy, Choice: A. Online Literature Search (Class Google Jockeys) (links to text, soundtracks, video clips, etc.)



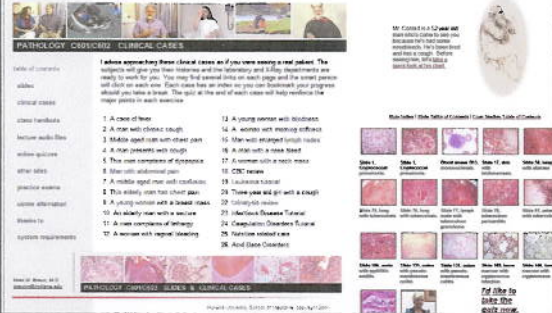
5. Autonomy, Choice: B. Famous Person Web Explorations, Searches, Twitter Tracking, and Interviews (e.g., Thomas Friedman, NY Times reporter)




**5. Autonomy, Choice:
B. Famous Person Web
Explorations, Searches, Twitter
Tracking, and Interviews Continued
(e.g., famous Australian actors)**




**5. Autonomy, Choice:
C. Online Cases (e.g., Mark Braun, IU)**



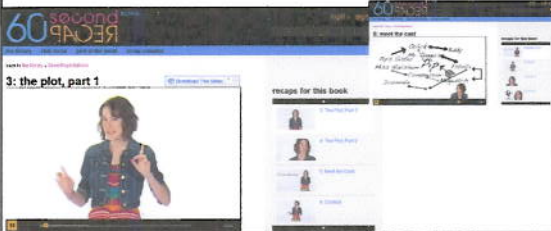
**5. Autonomy, Choice: D. Explore
supplemental Health Resources (portals,
referatories, & repositories)**



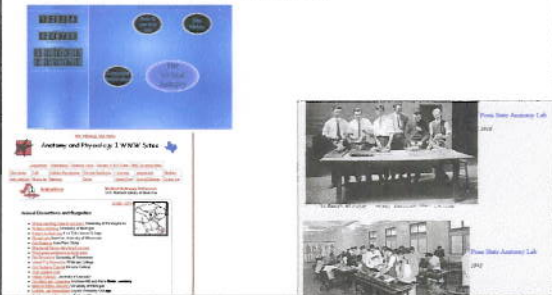
**5. Autonomy, Choice:
E. Explore Online Museums, Zoos,
Library Exhibits**



**6. Relevance, Meaningfulness:
A. 60 Second Recap, Jenny Sawyer
<http://www.60secondrecap.com/>
Actress to students: Lend me your earbuds!
English major, 24, rambunctiously recaps the classics in 60-second Web videos; By Greg Toppo; USA TODAY, September 2009**



**6. Relevance, Meaningfulness:
B. Online Simulations and Demonstrations
(e.g., self study in anatomy or chemistry, virtual autopsy, dissection, etc.)**



**6. Relevance, Meaningfulness:
C. Shared Online Video (e.g., TED:
technology, entertainment and design)**

USA TODAY
Technology → Technology Live → Science Fair → Science & Space → Innovation → Gadgets → VR & AR
Tech confab with a conscience goes global
Watch on the GO: YouTube, YouTube, YouTube
Enter: News, First, Features & Photo: 10/2

**More and More Shared Online
Video (e.g., Link TV, TED Conference,
Edutopia Videos)**

**6. Relevance, Meaningfulness:
D. Virtual Tours and Timelines
(i.e., HyperHistory; <http://simile.mit.edu/timeline/>)**

Virtual Tour of Oxford
Gates through the
Timeline

**6. Relevance, Meaningfulness:
E. Tour an Oil Drilling Site (i.e., BP)**

BP Impact of the oil disaster

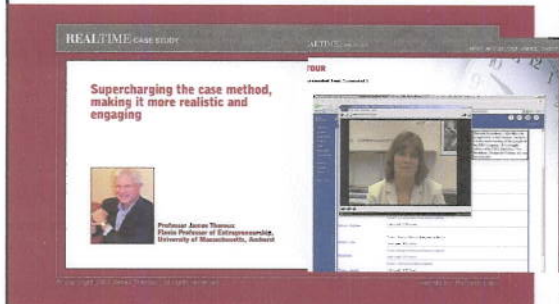
**7. Interactive, Collaborative:
A. Online Language Learning
(Skype, MSN, etc.)**

SpeakENG Course

**7. Interactive, Collaborative:
B. Collaborative Documents (Google Docs)
and Bookmarking (Diigo, Delicious)**

Google docs
Create and share your work online
• Upload files and save to your storage
• Edit online, from anywhere
• Print, share, or access your documents
• Merge changes in real time
• Find an online community partner
• It's free!
• Learn more → New features

**7. Interactive, Collaborative:
C. Real World Problems (PBL online):
Real-time Cases**



**7. Interactive, Collaborative:
D. Google Docs, Ning, Google Groups, MSN Groups,
Yahoo Groups, Diigo, etc.**



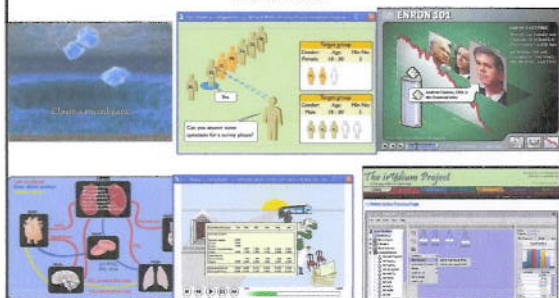
**8. Engagement, Effort:
A. Synchronous Learning**



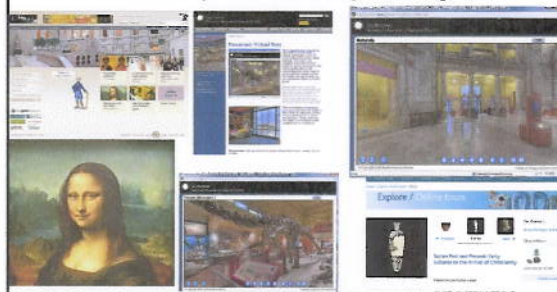
**8. Engagement, Effort:
B. Synchronous and Asynchronous Events
(e.g., Breeze + Video + Online Forum + Online
Papers)**



**8. Engagement, Effort:
C. Flash, 3-D Visualization, & Laboratory
Software**



**8. Engagement, Effort:
D. Tour a Museum (e.g., British
Museum, Smithsonian, Louvre)**



9. Tension, Challenge, etc.:
A. Ethical Medical Debates

Students to protest human body exhibit

Maggie Ybarra
 Issue date: 3/5/09 Section: News

9. Tension, Challenge, etc.:
B. Electronic Guests & Mentoring
 (Simon Fraser University News: <http://www.sfu.ca/mediapr/news/2001/Sept6hightech.html>)

9. Tension, Challenge, etc.:
C. Controversial Science (e.g., *Ida* (a transitional species) *47-Million-Year-Old Darwinius Masillae Fossil the Missing Link?* (wowOwow, May 20, 2009))

10. Yields Products, Goals:
A. Student YouTube Products

<http://www.youtube.com/watch?v=xiwSiryPzsQ>
http://www.youtube.com/watch?v=x3FJyI4Pn_E
<http://www.youtube.com/watch?v=eD1awpaSuP0>

10. Yields Products, Goals:
B. Using Online Video (e.g., YouTube) to Memorize Sonnets and Poems

10. Yields Products, Goals:
C. Photo Festivals and Competitions (e.g., COFA at UNSW, Scrapblog, flickr, etc.)

10. Yields Products, Goals:
D. Create Own Channel in YouTube (e.g., TravelinEdMan)
<http://www.youtube.com/user/TravelinEdMan>



TEC-VARIETY Model for Online Motivation and Retention

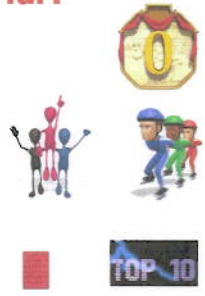
Tone/Climate
Encouragement, Feedback
Curiosity

Variety
Autonomy
Relevance
Interactive
Engagement
Tension
Yields Products




Poll #1: How many ideas did you get so far?

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.
7. More than 10.



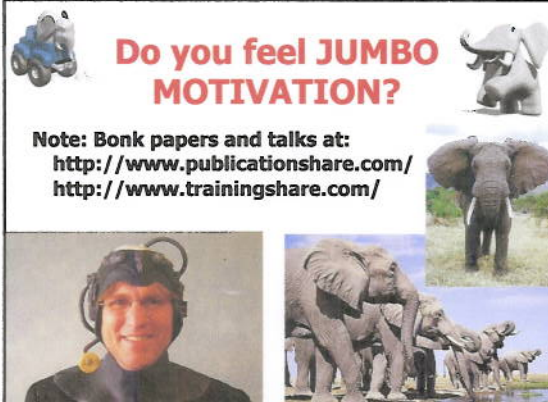
99 seconds: What have you learned so far?

- Solid and Fuzzy in groups of two to four




Do you feel JUMBO MOTIVATION?

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



Masterclass Part 2: Addressing Learning Styles and Diverse Learners with the R2D2 Model

Dr. Curtis J. Bonk
 Professor, Indiana University
<http://php.indiana.edu/~cjbonk>,
cjbonk@indiana.edu



Magic #2: The R2D2 Model

Empowering Online Learning

100+ Activities for Reading, Reflecting, Displaying & Doing

The R2D2 Method

1. **Read** (Auditory and Verbal Learners)
2. **Reflect** (Reflective Learners)
3. **Display** (Visual Learners)
4. **Do** (Tactile, Kinesthetic, Exploratory Learners)

1. Auditory or Verbal Learners

- Auditory and verbal learners prefer words, spoken or written explanations.

Read 1a. Publishing in Open Access Journals (e.g., PLOS)

Read 1b. Course Announcements (e.g., Teaching with Twitter)

Poll: Podcast Questions

- a. Who has listened to a podcast?
- b. Who listens to a certain podcast on a regular basis?
- c. Who has created a podcast?
- d. Who has created a vodcast?
- e. Who thinks podcasting is simply more talking heads?

Read 1c. Podcasting Medical Lectures (School of Dentistry, Univ of Michigan)

The image shows a screenshot of an iTunes library with a podcast titled "IT BANGAPP" from the School of Dentistry at the University of Michigan. To the right, there is a diagram titled "Audio Amplification via Computer" showing a computer connected to a speaker and a microphone. Below that is a diagram titled "Instructional Design Process" showing a circular flow of steps.

Read 1d. Podcast Show Reflections

- Students listen to a podcast.
- Reflect on what they learned in an online forum.
- Students comment on each other's post.

A collage of educational resources. On the left, a logo for "ENGLISH IN THE REAL WORLD" with the text "weekly podcasts". In the center, a woman speaking into a microphone with the text "Nursing Show". On the right, a screenshot of a forum post with the text "INSURANCE TALKS".

Read 1e. Podcast Research Reviews

The image shows a screenshot of a Nature Reviews Cancer journal article titled "What is translational cancer research?". To the right, there is a podcast player interface with the text "Podcast supported by CANCER RESEARCH UNIVERSITY OF CAMBRIDGE".

Read 1f. Wiki Steps on How to do Something: Wikihow <http://www.wikihow.com/>

A screenshot of a WikiHow article titled "How to Use English Punctuation Correctly". The article includes a list of steps for using punctuation correctly, such as "Put your subject with a verb..." and "Use the apostrophe to show possession...".

Read 1g. Online Tutorials, Help, Announcements, Q&A, and FAQs

A screenshot of the NCBI PubMed website. It features a search bar and several instructional boxes. One box says "To register for a My NCBI account, click on the Register link at the top right of the screen." Another box says "Target your results using the improved List page!" and lists steps like "Click the List page link to make..." and "Add an author or journal to your search...".


2. Reflective and Observational Learners

- Reflective and observational learners prefer to reflect, observe, view, and watch learning; they make careful judgments and view things from different perspectives


A diagram of the reflective learning cycle with five stages: "Describe", "Analyze", "Evaluate", "Reflect", and "Plan". Below the diagram are three small images of people: a person in a blue uniform, a man in a white shirt, and a woman in a white shirt.

Poll: Blogging Questions

- a. Who has a blog?
- b. Who regularly reads other people's blogs?
- c. Who assigns blogging tasks?
- d. Who has created a video blog?
- e. Who thinks it is an utter waste of time to blog?



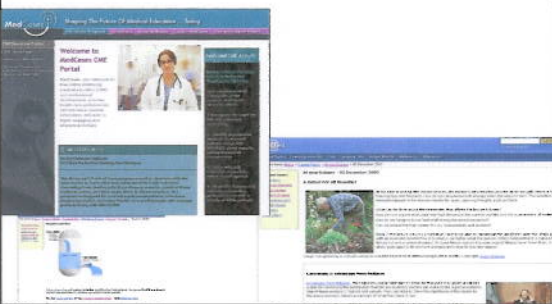
Reflect 2a. Expert and Domain Specific Blog Reflections



Reflect 2b. Cultural Blogs (e.g., Dr. Kim Foreman, San Fran State University, Come and See Africa Blog; <http://comeandseeafrica.blogspot.com/>)




Reflect 2c. Analyze Online Cases (problems, solutions, etc.)




Reflect 2d. Workplace and Field Reflections

1. Instructor provides reflection or prompt for job related or field observations
2. If a large section class, divide into teams
3. Reflect on job setting or observe in field
4. Record notes on Web and reflect on concepts from chapter
5. Respond to peers
6. Instructor summarizes posts



Reflect 2e. Student Created Online Resource Library (ORL) or Library Day

- Students find 20 online articles in 1 week.
- Summary them in a discussion forum.
- Peer assigned to give feedback.
- Write summary paper of what learned.



Reflect 2f. Videos on Book Websites (e.g., Brain Rules, John Medina)

Reflect 2g. Big Think (short topical videos from famous people)

Reflect 2h. Free OpenCourseWare of Open Educational Resources (e.g., watch or Listen to Online Courses or Programs on Disaster Preparedness and other areas)

3. Visual Learners

- Visual learners prefer diagrams, flowcharts, timelines, pictures, films, and demonstrations.

Display 3a. Pubcasts! (videos of scientific papers and science)
 NSF, the Public Library of Science, and the San Diego Supercomputing Center created a YouTube for scientists to help demystify important research papers. See SciVee

Display 3b. Anchored Instruction Discussions (YouTube, CNN, BBC, TeacherTube, CurrentTV)

- In a synchronous lecture interrupt it with a summary video (could be a movie clip) explaining a key principle or concept.
- Refer back to that video during lecture.
- Debrief on effectiveness of it.

Display 3c. Adventure Learning
 Australian adventurer Don McIntyre and teenage circumnavigator Mike Perham to re-enact Capt William Bligh's epic mutiny on the Bounty open boat voyage, September 9, 2009

Display 3d. Concept Mapping and Timeline Tools (VUE, Bubbl.us, Cmap, Freemind, Gliffy, Mindmeister, or Mindomo)

Display 3e. World Trends and Indices (e.g. Worldmapper)

Display 3f. United Nations Opens World Digital Library, April 21, 2009
 Chronicle of Higher Ed, <http://www.wdl.org/en/>

Display 3g. Shared Online Video (e.g., Howcast, WonderHowTo, Clip Chef, Link TV, Fora TV, etc.)

Display 3h. Online Historical Document (e.g., Turning The Pages, British Library)

Display 3i. Medical Animations and Videos (find anchoring event: YouTube, CNN, BBC, TeacherTube, CurrentTV)

This display features a grid of video thumbnails from YouTube. The thumbnails include: 'Lungs: Medical Animation', 'Anatomy 3D Medical animation!', 'Heart Medical Animation', '3D Human Anatomy', '3D Human Anatomy', '3D Human Anatomy', and '3D Human Anatomy'. The videos show detailed anatomical models and medical procedures.

Display 3j. Online Timelines (US Presidents)

This display shows two examples of online timelines for US Presidents. The top one is for 'EARLY LIFE - LINCOLN' and the bottom one is for 'WILLIAM JEFFERSON CLAYTON'. Each timeline includes a portrait of the president, a list of key events, and a detailed biographical text.

Display 3k. Videos of the Periodic Table

This display is a collage of various videos related to the periodic table. It includes a 'PERIODIC TABLE OF VIDEOS' grid, a video titled 'Amazing jellyfish-like Simulation - Smart Technology', and several other educational videos showing chemical reactions and experiments.

Display 3L. Video Blog (Vlog) and Vodcasts

This display shows two examples of video content. On the left is a 'Video Marketing for Business Vlog' with a video player and accompanying text. On the right is a 'Lafayette Business Vodcast' page, which includes a video player, a list of recent items, and contact information.

Display 3m. Human Embryology Animations (Valerie O'Loughlin, Indiana University)

This display shows a website titled 'Human Embryology Animations' by Valerie O'Loughlin from Indiana University. The site features several sections: 'Gastrointestinal Embryology', 'Development of the Embryo, Germes and Gastrulation', and 'The Development of the Somites, Dorsal and Ventral'. It includes detailed diagrams and text explaining the development of various organs and tissues.

Display 3n. Download and Use Online 3D Sketches (Google SketchUp; download <http://sketchup.google.com/3dwarehouse>)

This display shows a screenshot of the Google 3D Warehouse website. It features a search bar, a list of models, and a prominent 3D model of the 'Roosevelt Island Bridge & Motorgate Parking'. The page includes navigation options like 'Image', 'Map', and '3D View', along with download and view statistics.

Display 3o. Indexing Sounds in Cities with Google Maps

This display shows a Google Maps interface with several red location markers overlaid on a city map. A video player is embedded on the right side of the map, showing a man speaking into a microphone. The video player has a title 'THE CHRONICLE' and a play button. The overall layout suggests a project where audio recordings are geotagged and visualized on a map.

Display 3p. Map Mash-ups

This display is a collage of six different map mash-up visualizations. The top-left image shows a 3D architectural rendering of a city with blue and green buildings. The top-right image shows a satellite map of a city with white and blue overlays. The middle-left image shows a 3D model of a city with a blue sky and white clouds. The middle-right image shows a satellite map of a city with a blue and white overlay. The bottom-left image shows a 3D model of a city with a blue sky and white clouds. The bottom-right image shows a 3D model of a city with a blue sky and white clouds.

Display 3q. Shared Online Video Demonstrations (e.g., Monkey See, doFlick)

This display shows a screenshot of a video sharing website interface. The main content area features a video player with a man speaking. To the right of the video player are several social media sharing options, including 'Facebook', 'Twitter', 'LinkedIn', 'StumbleUpon', and 'Dribbble'. The interface is clean and modern, typical of a video sharing platform.

Display 3r. Vodcast for Medical Training

This display is a collage of six images related to medical training. The top-left image is an ultrasound scan. The top-middle image shows a person using a mobile device, possibly a PDA or early smartphone, to view medical data. The top-right image is a screenshot of a medical website. The bottom-left image shows a close-up of a person's torso, possibly a patient, with a medical professional's hands. The bottom-middle image is a white mobile device, possibly an iPod or early smartphone. The bottom-right image is a screenshot of a medical website.

Display 3s. Weather-Related Visuals and Animations

This display features three weather-related visualizations. On the left is a large weather map of the United States and surrounding regions, showing various weather patterns. On the right is a smaller image of a hurricane simulation, labeled 'HURRICANE IKE', with a red and yellow eye. Below the hurricane simulation is another smaller weather map showing a different weather pattern.

Display 3t. Tour the U.S. Capital

This display shows a screenshot of a virtual tour website for the U.S. Capitol building. The main content area features a large image of the interior of the Old Senate Chamber. To the right of the image is a text box titled 'The Old Senate Chamber' with a description of the chamber's history. Below the text box is a list of 'Historic Events in the Old Senate Chamber' and 'Old Senate Chamber Artwork'. The website has a clean, professional design.

Display 3u. Virtual Archaeology (e.g., ARCHAVE from Brown University)

Display 3v. Timeline Tools (e.g., SMILILE from MIT, Learning Tools from UBC)

4. Tactile/Kinesthetic Learners

- Tactile/kinesthetic senses can be engaged in the learning process are role play, dramatization, cooperative games, simulations, creative movement and dance, multi-sensory activities, manipulatives and hands-on projects.

Poll: Wiki Questions

- Who regularly reads Wikipedia articles just for fun?
- Who regularly reads Wikibooks?
- Who seeks Wikipedia for content?
- Who has edited or written new articles on Wikipedia or Wikibooks?
- Who thinks it is ok for students to cite from Wikipedia?

Do 4a. Wikibooks: International Collaboration (Web 2.0 and Emerging Learning Technologies (The WELT))

Web 2.0 and Emerging Learning Technologies
From Wikibooks, the open content textbooks collect: Table of Contents

Do 4b. Syllabus, Glossary, etc. in wiki: Students sign up for tasks (Ron Owston, York University)

Do 4c. Medical Community Wikis

AskDrWiki is a medical wiki with the goal of providing solutions and memory for physicians, nurses, and medical students. The site includes a search bar, navigation links, and a featured video player showing a medical procedure.

Do 4d. Survey Research and Market Analysis

(e.g., Mister Poll, MicroPoll, Zoomerang, SurveyShare)

SurveyShare, Mister Poll, MicroPoll, and Zoomerang are examples of online survey and market analysis tools. SurveyShare offers a variety of survey types and data analysis. Mister Poll and MicroPoll provide simple, user-friendly interfaces for creating and distributing polls. Zoomerang offers a range of survey options and reporting tools.

Do 4e. Preparatory Course Review Modules

(Franklin University, MBA accounting course)

<http://video.franklin.edu/Franklin/vncs7/mbsaaccounting/cont-behavior-player.html>

Variable Cost	Fixed Cost
Changes in Total	Not affected by X
Per Unit	Decreases as X
Per Unit	Increases as X
Per Unit	Constant
Per Unit	Increases as X
Per Unit	Decreases as X
Per Unit	Constant
Per Unit	Increases as X
Per Unit	Decreases as X
Per Unit	Constant

Do 4f. Online Warm-ups Activities

Just-In-Time-Teaching (JITT)

<http://webphysics.iupui.edu/jitt/jitt.html>

The Just-In-Time-Teaching (JITT) website provides online warm-up activities for students. It includes a large yellow banner with the text 'JUST-IN-TIME TEACHING', a photo of a man, and a map of the United States.

Do 4g. Podcasts for students of pronunciation class

(e.g., Tzu-Su Chen, Taiwan)

Podcasts for students of pronunciation class, such as those by Tzu-Su Chen from Taiwan. The collage shows various podcast thumbnails and audio player interfaces, including one with the text 'Hey Jude, don't make it bad Take a sad song and make it better'.

Do 4h. Create Video Blogs

- Have students create a blog with videos or a video blog.
- Have them do a final reflection on it.

Video blogs for students. The collage shows various video blog thumbnails and player interfaces, including one with a group of people in a meeting and another with a person speaking.

Do 4i. Virtual World and Podcast Reenactments

A collage of images related to virtual world and podcast reenactments. It includes a poster for 'Twelfth Night' by Shakespeare's Company, a 'Live Play' poster, and several screenshots of virtual worlds and podcast interfaces.

Do 4j. Medical Simulations in YouTube and Second Life

A collage of images related to medical simulations. It includes screenshots from YouTube and Second Life, showing virtual medical environments and simulations.

Poll: How many ideas did you get from the second part of this talk?

- a. None—you are an idiot.
- b. 1 (and it is a lonely #).
- c. 2 (it can be as bad as one).
- d. 3-5
- e. 6-10
- f. Higher than I can count!

Cartoon illustrations of people and a hurdle, likely representing the poll results or the speaker's perspective.

99 Seconds Stop and Share: Top Three Things you can use!

A collage of various icons and objects representing ideas, including a large number '3', a jar of bees, a stack of books, and other symbols.

Try the R2D2 Method! Try TEC-VARIETY! And hope for some magic!!!

Sample papers : <http://www.publicationshare.com/>
 Archived talks: <http://www.trainingshare.com/>

Screenshots of the R2D2 method and TEC-VARIETY, showing people in virtual environments and a presentation slide.

Masterclass Part 3: Blended Learning

Curt Bonk, Professor, Indiana University
 cjbonk@indiana.edu
<http://mypage.iu.edu/~cjbonk/>
<http://SurveyShare.com>

Images of a person, a drum set, and a blender, likely representing the blended learning concept.