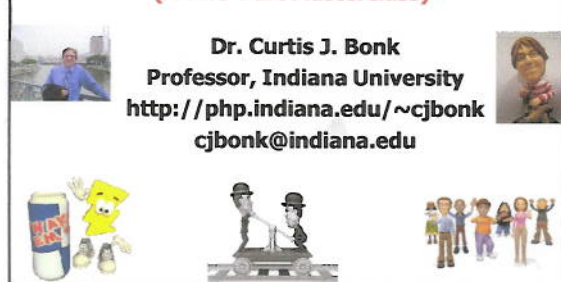


Active Learning with Technology: Myths, Magic, and Mucho Motivation (A Two-Part Masterclass)

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!



Jumbo Motivation is Needed!



Yonsei University Library, Seoul, Korea



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>

CAMPUS TECHNOLOGY


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For Tech Trends & News
 Remaking the College Campus
 As a leading online education college campus of the future, online physical space, technology, and collaboration blend.

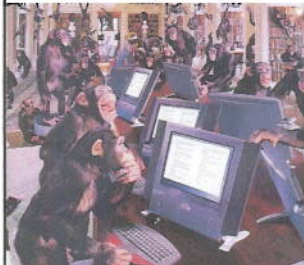

Aces of Spaces, Campus Technology,
 June 2011, Jennifer Demski



For all things, VR360 at Lehigh University, here students take "lightbulb moments" without them in a virtual world to create digital content in the light.

CAMPUS TECHNOLOGY June 2011

Masterclass Part 1:
TEC-VARIETY

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.

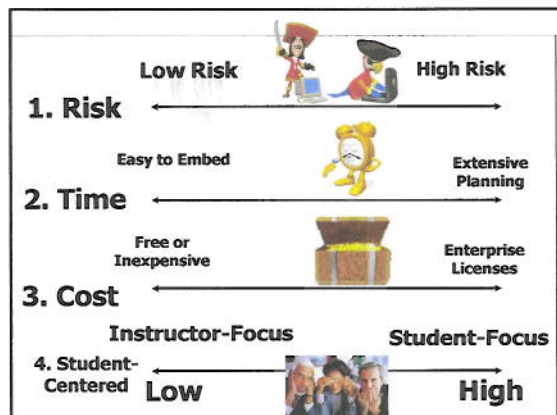


I even reflected on this for a moment...and then something magical happened...

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


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



1. Tone/Climate: Social Ice Breakers


C. 8 nouns (adjectives, verbs)

- List of nouns: (e.g., pirate, computer, traveler, roadrunner, wind, bookworm, musician, mentor, etc.)
- <http://www.momswhothink.com/reading/list-of-nouns.html>
- List of adjectives: (e.g., lazy, powerful, shy, bored, exotic, cooperative, sloppy, rebel, etc.)
- <http://www.momswhothink.com/reading/list-of-adjectives.html>
- List of verbs: (e.g., coordinate, entertain, amuse, push, unite, beg, dream, publicize, etc.)
- <http://www.momswhothink.com/reading/list-of-verbs.html>



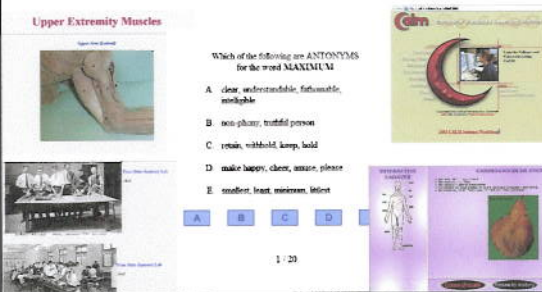
1. Tone/Climate: D. Video Course Intros

(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?

- clear, undrinkable, fatuous, multiple
- sea-phary, trustful person
- retain, withhold, keep, hold
- make happy, cheer, assure, please
- smallest, least, minimum, little

A B C D

1 / 20

2. Encouragement, Feedback, etc.:
B. Tutorials with Screen Capture
 (e.g., Jing, Screenr, GoView, etc.)

The screenshot shows the Jing website with navigation links for Home, Your Profile, and Jing To. It features a 'Download your Jing to try' section with buttons for Windows and Mac OS X. Below this, there are instructions on how to use the software, including a 'Publish' button and a 'Share instantly over the web, via email' option. A 'screenr' advertisement is also visible on the right side of the page.

2. Encouragement, Feedback, etc.:
C. Video Scenario Learning Accounting Interviews and Preparatory Course Review Modules
 (Franklin University, cost and forensic accounting course)

<http://video.franklin.edu/Franklin/acct/managerialAccounting/cost-behavior-player.html>
<http://video.franklin.edu/Franklin/acct/common/traudScenario02.html>

The screenshot displays a video player interface. On the left, there is a 'Cost Behavior' section with a diagram showing 'Variable Cost' and 'Fixed Cost' lines. The main area shows a video of a man speaking, with a smaller inset video of two men in a meeting. The video player includes standard playback controls like play, pause, and volume.

2. Encouragement, Feedback, etc.:
D. Vocab Sushi (\$25 for 3 months)

<http://www.vocab sushi.com/>

The screenshot shows the Vocab Sushi website. It features a 'Rice' section with a video of a man and text about learning vocabulary. There is a 'Vocab Sushi' logo and a 'Build Your Vocabulary' section. A progress dashboard on the right shows '1435' words learned and '38' items completed. The website has a green and white color scheme.

2. Encouragement, Feedback, etc.:
E. Online Accounting Lessons
 (e.g., Lyryx; <https://lifa.lyryx.co>)

The screenshot displays the Lyryx website. It features a 'Lyryx' logo and a video of a woman speaking. There is a 'Lyryx Learning' section with a 'Test' button. On the right, there is a book cover for 'Lyryx Interactive Financial Accounting' with a red 'INCORRECT' label. The website has a blue and white color scheme.

2. Encouragement, Feedback, etc.:
F. Blog and Website Polling
 (e.g., BlogPolls, BlogPoll, MicroPoll, etc.)

The screenshot shows the BlogPolls website. It features a 'Welcome to Blog Polls!' section with a 'Create New Poll' button. There is a 'Poll Question (step 1 of 2)' section with a 'Set up your custom poll in minutes... for FREE!' banner. The website has a green and white color scheme.

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

The screenshot displays an online news page with several articles and images. The articles include 'After nearly 100 years, Phobos begins routine', 'Their final sacrifice: The men we lost', 'Complicated relationship', and 'Human origin takes a new track'. There are also images of a man, a dinosaur, and a jellyfish. The page has a white background with various colored accents.

3. Curiosity, Fun: B. Online Social Networking Games (e.g., scrabble, hangman, etc.)

Google takes swing at Facebook in social games

USA TODAY | By Matt Roper and Bruce Garcia, USA TODAY August 12, 2011

ANGRY BIRDS

Instant Interactive

3. Curiosity, Fun: C. Online Database Activities (e.g., WolframAlpha) (<http://www.wolframalpha.com/>)

WolframAlpha.com

A Quick Introduction to Wolfram Alpha by Stephen Wolfram

3. Curiosity, Fun: D. Track a Scientist, Scholar, Celebrity, Writer (e.g., Biography.com, biography online, FamousPeople.com)

Biography.com

Welcome to Biography Online

Find out more about the lives of famous people from the past and present.

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

P540 Cool Resource Provider and Moderator Sign Up Sheet

If enough people are working with the same assignments it is possible to coordinate a lesson plan that will be more effective than any one person could do on their own.

Instructions: Please get your name in the box for the BEST WEBSITE that you want to be the moderator. Only complete one box (either for K-12 or Adult Learning, NOT both).

Tasks:

- 1. Introduction to the Study of Science
- 2. Education Learning
- 3. Adult Education Learning

4. Variety, Novelty, Fun, Fantasy: B. Random Lists (Random.org—clocks, coins, playing cards, dice, integers, passwords, jazz scales, lists, sequences, etc.)

RANDOM.ORG

Random Sequence Generator

There were 50 items in your list. When they are in location order:

1. 100
2. 100
3. 100
4. 100
5. 100
6. 100
7. 100
8. 100
9. 100
10. 100

4. Variety, Novelty, Fun, Fantasy: C. Timers (Stopwatches, Countdown Timers, Stopwatch Bombs, etc.; <http://www.online-stopwatch.com/countdown-timer/>)

www.online-stopwatch.com

00:01:39

Start Clear

Start Restart

**4. Variety, Novelty, Fun, Fantasy:
D. Music Videos of Content**
History for Music Lovers, Washington Post
The French Revolution ("Bad Romance" by Lady Gaga)
Trojan War ("Tainted Love" by Soft Cell)
Charlemagne ("Call Me" by Blondie)
<http://www.youtube.com/user/historyteachers7blend-84obv-58yp1126-JULC@sqdA>

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

**5. Autonomy, Choice:
B. Web Exploration Assignments**

1. Complete Works of Charles Darwin Online: <http://darwin-online.org.uk/>
2. The Complete Works of William Shakespeare: <http://shakespeare.mit.edu/>
3. Edgar Allan Poe Society of Baltimore: <http://www.sapos.org/>
4. Einstein Archives Online: <http://www.alberteinstein.info/>
5. Federal Resources for Educational Excellent project: <http://free.ed.gov/>
6. Global Text Project: <http://globaltext.org/>
7. iBerry (Open Courseware Directory): <http://iberry.com/>
8. Jane Austen: <http://www.janeausten.org/>
9. The Jane Goodall Institute: <http://www.janegoodall.org/>
10. Timeless Hemingway: <http://www.timelesshemingway.com/>

**5. Autonomy, Choice:
C. Open Teaching and Massive Open Online Courses (i.e., MOOC, David Wiley, George Seimens, Ray Schroeder)**

edX/MOOC
Online Learning Today...and Tomorrow

Welcome to edX/MOOC 2011

Accelerating Online Learning... from the MOOC to open... without diluting the common standards... can be an

**6. Relevance, Meaningfulness:
A. Online Cases (e.g., Mark Braun, IU)**

Slide 106: case with hypertrophic cardiomyopathy.

Slide 121: case with pseudo-membranous colitis.

Slide 105: case with paraneoplastic syndrome.

Slide 104: case with lymphocytic colitis.

Slide 104: case with lymphocytic colitis.

I'd like to take the quiz now.

Stomach: anatomical orientation and history. Primary differentiated gastric adenocarcinoma.

Adenocarcinoma: primary carcinoma with tubular long muciniferous tubules.

**6. Relevance, Meaningfulness:
B. Google Art Project** (new Google project that allows visitors to explore museums around the world and view hundreds of artworks) <http://www.googleartproject.com/>

Art Project

Aggregates resources from around the world... discover and view hundreds of artworks of incredible... from books... and even create and share your own galleries of 200+ artworks.

View Artwork

Freeze Gallery of Art, Smithsonian, Washington, DC

The Metropolitan Museum of Art, New York City

Rijksmuseum, Amsterdam

Contemporary Art, Berlin

The Yale Beinecke Library, 31 Polk Street

National Gallery, London

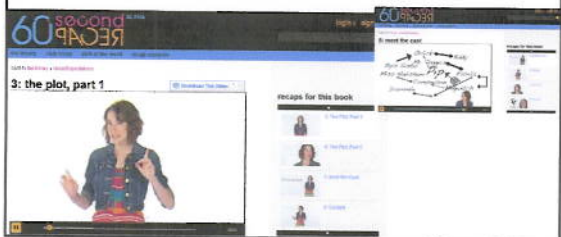
MOMA, The Museum of Modern Art, New York City

Henry Ford, Greenfield Village

Musée d'Orsay, Paris

Van Gogh Museum, Amsterdam

6. Relevance, Meaningfulness:
C. 60 Second Recap, Jenny Sawyer
<http://www.60secondrecap.com/>
 Access 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:
D. Tour an Online Oil Drilling Site or Role Play Situations (i.e., BP)
<http://www.youtube.com/watch?v=ts45BkAnqTs>

Open newroom learning


Asset
 Learn: Create. Share. All for free.

There are 45 videos in this library of videos created for an online. In this library...

- When These Videos are Used, Faculty will be able to... (Detailed description of video content)
- Available for use in...
- Available for use in...

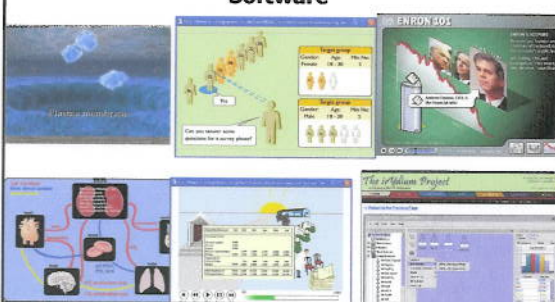


7. Interactive, Collaborative:
A. Working In Virtual Teams
 (e.g., Collanos, Ning, Groove, SharePoint, Google Docs)



Ning

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



8. Engagement, Effort:
B. Dr. Monica Rankin's class, UT Dallas, Cuban Revolution (April/May 2011)
<http://www.youtube.com/watch?v=ocQMf1kPo98>



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



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?

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

99 seconds: Stop and Share: Top Three Things Learned!

Do you feel JUMBO MOTIVATION?

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

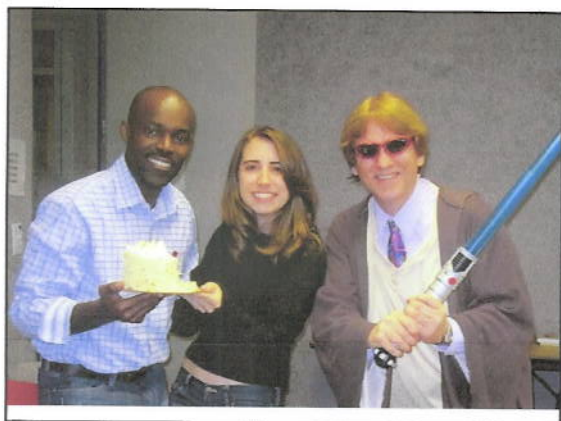
Masterclass Part 2: Where Are You R2D2?: Introducing Read, Reflect, Display, and Do Model

Framework #2: The R2D2 Model

Carta J. Bank | Ke Zheng

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. Wikibook or Wikipedia Editing or Critiques

- Ask students to critique a wikibook or page from Wikipedia

Read 1b. Reading from Open Access Journals (e.g., PLOS)

The International Review of Research in Open and Distance Learning
A refereed e-journal to advance research, theory and best practice in open and distance learning worldwide
Athabasca University

Read 1c. Course Announcements (e.g., Teaching with Twitter; Course announcements and following people (e.g., microblogging))

Read 1d. Listen to Open Access Podcast Shows (and write papers)

This collage features several open access resources:

- Nature Reviews Cancer**: A journal cover with the text "Your carefully collected opinions on high quality Peer-Reviewed Cancer Research".
- NursingShow.com**: A website featuring a nurse with a stethoscope and a laptop.
- Military History Podcast**: A cover image showing a group of soldiers in formation.
- English in the Real World**: A logo with a yellow sun and the text "weekly podcasts".

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

The diagram shows a cycle of learning processes: Data, Reflecting, Questioning, and Observing. Below the diagram are three small photographs of individuals.

Reflect 2a. Individual Blogging Reflections

A photograph of a person in a military uniform sitting at a desk, focused on typing on a laptop. The background shows a window with a view of trees.

Reflect 2b. Critical Friend Blog Postings (Kristen and Susan)

Two screenshots of blog posts. The left one is titled "R685: The Web 2.0" and features a purple header. The right one is titled "My Personal Reflections on Web 2.0" and includes a photo of a person.

Reflect 2c. Expert and Domain Specific Blog Reflections (English, Health, Business, etc. blogs)

A collage of domain-specific blogs:

- The Wall Street Journal**: A news article snippet.
- The English Blog**: A blog post titled "File of 2010 Week, This is It" with a colorful image of a person.
- HEALTH BLOG**: A post titled "University of Pennsylvania Turns to Industry for Medical Research".

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

Two screenshots of cultural blogs. The left one is titled "Come and See Africa (CASA)" and features a map of Africa. The right one shows multiple photos of large groups of people at community events.

Reflect 2e. Scenario Learning (e.g., Krispy Kreme Management 101)

The image shows a screenshot of a management simulation for Krispy Kreme. It includes a dashboard with various charts and graphs, a character selection screen with names like Dianna, Carlos, Bernardo, and Alex, and a Krispy Kreme logo at the bottom.

Reflect 2f. Workplace and Field Reflections

A collage of images depicting various healthcare and workplace scenarios. It includes a group of medical professionals, a nurse attending to a patient, a doctor examining a patient, and a group of people in a meeting or classroom setting.

3. Visual Learners

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

The image features a circular diagram with four quadrants labeled 'Visual', 'Auditory', 'Reading/Writing', and 'Kinesthetic'. Below it is a photograph of a person wearing a space helmet, likely from a movie or documentary.

Display 3a. Videos for clinical education (Sungkyunkwan University School of Medicine, www.mededu.or.kr)

Two video frames are shown. The left frame shows a medical procedure being performed on a patient. The right frame shows a person's neck being examined by a healthcare professional. Below the frames is Korean text: "환자의 양쪽에서, 왼손으로 환자의 오른쪽 갑상선을 반대편으로 밀고,".

Display 3b. Visual presentations (e.g., Prezi)

<http://prezi.com/ihmih159xd46/is-the-world-open/>
<http://prezi.com/8h7qrxlyaymv/the-world-is-open/>

Two screenshots of Prezi presentations. The first is titled 'Is The World Open?' and the second is titled 'THAT WAS IN 1945'.

Display 3c. Radical Cartography

<http://www.radicalcartography.net/index.html?chicago0dot>

A map of Boston city limits showing annexations and landfill from 1804 to 1912. The map is color-coded by year: 1804 (South Boston), 1836 (East Boston), 1855 (Washington Village), 1867 (Roxbury, Breck's Island), 1869 (Dorchester), 1873 (West Roxbury, Brighton, Charlestown), and 1912 (Hyde Park).

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. Medical Animations and Videos (e.g., YouTube, CNN, BBC)

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

Display 3h. The Virtual Zoarchaeology of the Arctic Project (VZAP) is a virtual, interactive, osteological reference collection for the study of northern vertebrates. VZAP is a dynamic natural history archive which allows students and researchers to examine the complete skeletal anatomies of multiple bird, mammal, and fish species in both 2D and 3D.

(Anthropologist Puts an Idaho Museum's Many Bones Within Virtual Reach, Peter Monaghan, July 10, 2011, Chronicle of HE) <http://vzap.iri.lsu.edu/ViewPage.aspx?id=230>

Display 3i. Weather-Related Visuals and Animations

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.

Do 4a. Podcast Productions and Shows

Do 4b. Paired Article Critiques in Blogs

- Students sign up to give feedback on each other's article reviews posted to their blogs.

Article	Student Critique	Student Peer Review
Ashp, J.B. (2007). <i>Does the Community of Inquiry Framework Predict Outcomes in Online MBA Courses?</i>	Stephen Moore Carole Powelko Lin Yu Alex Bandy	Lorraine Ryan Karen Lessard Fern Lin Lois Atkinson
Meyer, K.A. (2003). <i>Face-to-Face versus Threaded Discussion: The Role of Time and Higher-Order Thinking</i>	Lorraine Ryan Hark Daniel Nora Anne Karen Lessard Francis Wilkeson	Paul Anderson Yvonne Teary Carole Powelko Lin Yu Alan Steiner
Stein, P., Li, C.S. and Pridem, A. (2006). <i>A study of teaching presence and student usage</i>	Heather Thayer Dana Wilson	Sofia Rasporich Nora Anne

Do 4c. Online Warm-ups Activities Just-In-Time-Teaching (JiTT)

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

Do 4d. Uploading Mobile Books (e.g., BookRix, <http://www.bookrix.com/>)

Mobile Devices & Learning
How mobile devices are re-shaping the field of education
By Scott Brinker

Do 4e. Virtual Microscopes (Sungkyunkwan University School of Medicine, www.mededu.or.kr)

Do 4f. Virtual Quizzes

(Sungkyunkwan University School of Medicine, www.mededu.or.kr)

Do 4g. Virtual Worlds

(e.g., Second Life)

Do 4h. Virtual Worlds with Video Archive

(e.g., Dr. Monica Rankin's class, UT Dallas, Cuban Revolution)
<http://www.youtube.com/watch?v=D4uBhZN9Oos>

Do 4i. Simulation Games

Poll #2: Is your brain mush?

1. Yes.
2. No.
3. Not sure yet...

Any Questions?

Try the R2D2 and TEC-VARIETY!

Slides at: TrainingShare.com
 Papers: PublicationShare.com
 Book: <http://worldisopen.com/>
 Email: curt@worldisopen.com