

Blended Learning A to Z: Myths, Models, and Moments of Magic

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What I will discuss...

1. Definitions of blended learning
2. Myths of blended learning
3. Models of blended learning
4. Examples of blended learning



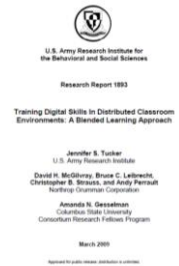
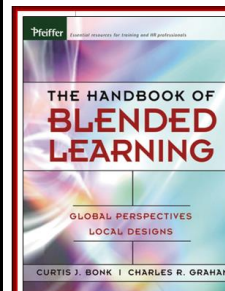
Myth #1: If you read the enough research you will be able to know the impact of blended learning.

1. Improved Pedagogy
 - More interactive instead of transmissive
 - Authentic, real world, etc.
2. Increased Access/Flexibility
3. Increased Cost Effectiveness



Recent Reports on Blended

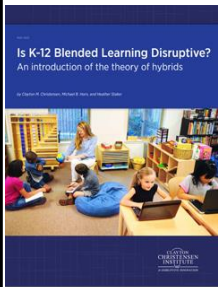
**The Handbook of Blended Learning:
 Global Perspectives, Local Designs (Bonk & Graham)**
<http://www.dtic.mil/cgi-bin/GetTRDoc?Location=U2&doc=GetTRDoc.pdf&AD=ADA495731>
<http://www.dtic.mil/cgi-bin/GetTRDoc?AD=ADA495731>



Is K-12 Blended Learning Disruptive

Heather Staker and Michael B. Horn,
 Innosight Institute, May 2013

<http://www.projectred.org/uploads/The-Rise-of-K-12-Blended-Learning.pdf>



August 12, 2013

Blended Learning Improves Test Scores, Information Week

<http://www.youtube.com/watch?v=53Pqj9t9b>
<http://www.informationweek.com/>
<http://carnegielearning.com/newsroom/carnegie-effectiveness-study/>



Ten Strategies to Improve Blended Course Design

Faculty Focus, July 26, 2013, Ike Shibley
<http://www.facultyfocus.com/articles/papers/ten-10-strategies-to-improve-blended-courses/>
<https://www.semanticscholar.org/urn:/10.1.1.1.1>

ADDIE: The Classic [early 1970's]

ADDIE: *Analysis, Design, Development, Implementation, and Evaluation*

Online Learning Insights, May 28, 2013
<http://onlinelearninginsights.wordpress.com/2012/05/28/addie-the-classic-early-1970s-model-for-designing-courses/>

Blended Learning Defined and Explained

Myths #2: Blended learning is easy to define.
Myth #3: Blended learning is hard to define.

Blending Online and F2F Instruction

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

Classifying K-12 Blended Learning

Heather Staker and Michael B. Horn, May 2012
<http://www.projectred.org/uploads/The-Rise-of-K-12-Blended-Learning.pdf>

“Blended learning is any time a student learns at least in part at a supervised brick-and-mortar location away from home *and at least in part* through online delivery with some element of student control over time, place, path, and/or pace.”

Figure 2. Definition of blended learning

Blended learning is...

a formal education program in which a student learns at least in part through online delivery of content and instruction with some element of student control over time, place, path, and/or pace

and

at least in part of a supervised brick-and-mortar location away from home.

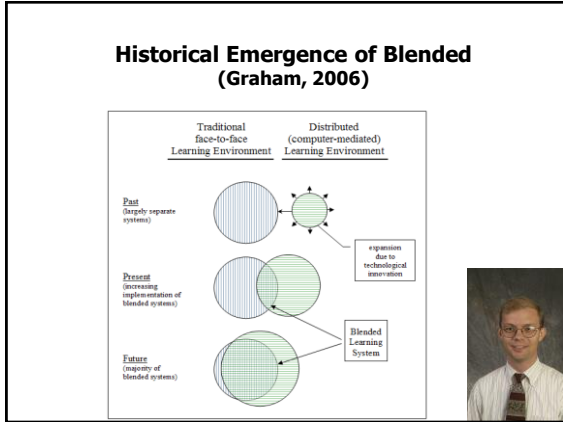
Classifying K-12 Blended Learning

Heather Staker and Michael B. Horn, May 2012
<http://www.projectred.org/uploads/The-Rise-of-K-12-Blended-Learning.pdf>

One critical part of the definition of blended learning is that it involves “some element of student control of time, place, path, and/or pace.” Digital Learning Now! describes each dimension:

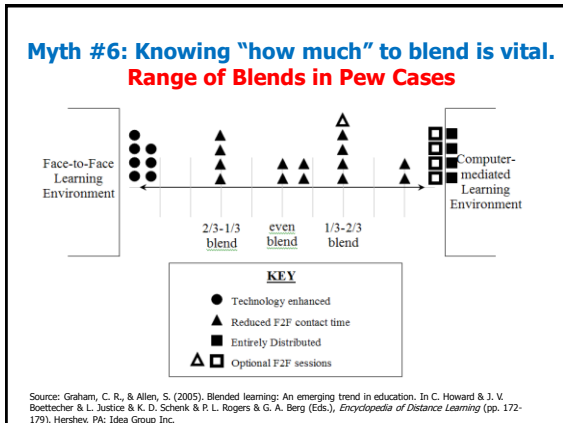
- **Time:** Learning is no longer restricted to the school day or the school year.
- **Place:** Learning is no longer restricted to the walls of the classroom.
- **Path:** Learning is no longer restricted to the pedagogy used by the teacher. Interactive and adaptive software allows students to learn [in a method that is customized to their needs].
- **Pace:** Learning is no longer restricted to the pace of an entire classroom of students.

Source: “Roadmap for Reform,” <http://digitalelearningnow.com/wp-content/uploads/2011/10/Roadmap-for-Reform.pdf>



Myth #4: People will know what I am saying when I say "blended learning."
Myth #5: Blended is the same as "hybrid."
The Sloan Consortium

Proportion of content delivered online	Type of Course	Typical Description
0%	Traditional	Course with no online technology used - content is delivered in writing or orally.
1 to 29%	Web facilitated	Course which uses web-based technology to facilitate what is essentially a face-to-face course. Might use Blackboard or WebCT to post the syllabus and assignments, for example.
30 to 79%	Blended/Hybrid	Course that is a blend of the online and face-to-face course. Substantial proportion of the content is delivered online, typically uses online discussions, typically has some face-to-face meetings
80+%	Online	A course where the vast bulk of the content is delivered online. Typically has no face-to-face meetings.



- Myth #7: Blended learning works everywhere.**
Where is Blended Beneficial?
- Intro Classes (Spanish, psych, algebra, biology)
 - AP Classes
 - Classes with low success rates
 - Classes with students working part-time
 - Required classes
 - Students are rural or spread over a distance
 - Classes with certification or standardization
 - Classes with new requirements or standards
 - Writing intensive classes, theory classes, etc.
 - Lab classes?

Examples of Blended Learning

- Put assessments/reviews online
- Online discussions
- Online labs
- Put reference materials on Web
- Deliver pre-work online
- Provide office hours online
- Use mentoring/coaching tool
- Access experts live online

- Myth #8: People learn more in face-to-face settings than blended or fully online ones.**
Fully Online and Blended Learning Advantages
1. Increased Learning (better papers, higher scores)
 2. More effective pedagogy and interaction
 3. Course access at one's convenience and flexible completion (e.g., multiple ways to meet course objectives)
 4. Reduction in physical class or space needs, commuting, parking, etc.
 5. Increased opportunities for human interaction, communication, & contact among students
 6. Introverts participate more
-

Myth #9: Instructors can have a logical discussion with administrators about blended learning.

Models of Blending

Blending occurs at the following four levels:

Instructor stakeholders

Administrator stakeholders

Myth #10: There is a best model of blended.

AMA Special Report, Effectively Implementing a Blended Learning Approach (Steven Shaw & Nicholas Igeri, 2006)

AMA at Work: lifelong learning, lifelong growth

Source: American Management Association, AMA at Work

10 Blended Learning Models

Classifying K-12 Blended Learning

Heather Staker and Michael B. Horn, May 2012

<http://www.innosightinstitute.org/innosight/wp-content/uploads/2012/05/Classifying-K-12-blended-learning2.pdf>

Figure 1. Blended-learning taxonomy

Blended Model #1. Face-to-Face Primary (online is for remediation of supplement)

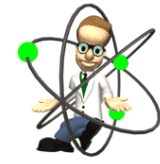
Blended Model #2. Rotation (students alternate FTF and Online instruction)

Figure 4. Station-Rotation model. KIPP LA Empower Academy

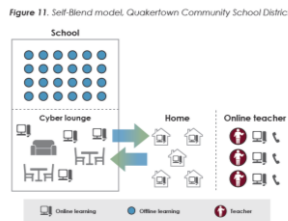
Blended Model #3. Flex
 (curriculum primarily online with
 instructors available FTF)



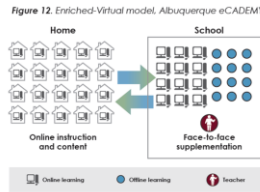
Blended Model #4. Online Lab
 (lab or field experience component
 of course is online)



Blended Model #5. Self-Blend
 (students decide on which courses
 they take online or which portion
 of the course is online)



Blended Model #6. Online Driver
 (now: "Enriched Virtual Model")
 (courses primarily online and
 physical facilities used to
 supplement or as needed)



Blended Model #7. Bookend
 (first and last part of the course is online
 and middle portion is FTF; AMA Special Report,
 Blended Learning Opportunities, Alison Rossett (2006))



Blended Model #8. Anchor
 (start with FTF or what students are
 familiar with and then move to online)



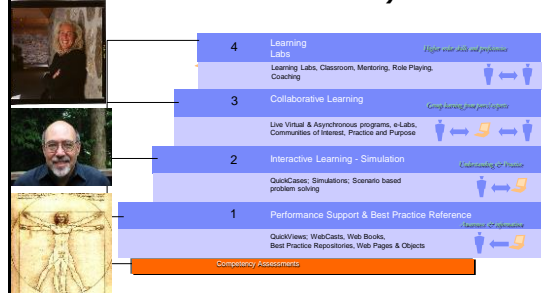
Blended Model #9. Field (combine FTF and online as needed...mix and match)

Table 1. What Might Go in the Blend

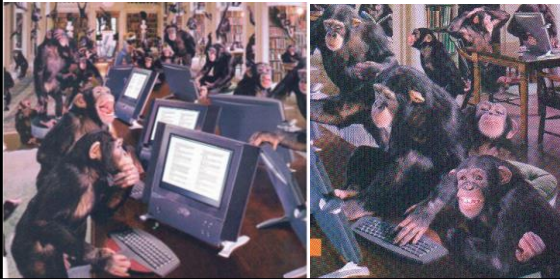
Live face-to-face (formal) <ul style="list-style-type: none"> Instructed classroom (F2F) Workshops Coaching, mentoring On-the-job (OTJ) training Work-based problems 	Live face-to-face (informal) <ul style="list-style-type: none"> Collegial relationships Work teams Apprenticeships
Virtual collaboration/asynchronous <ul style="list-style-type: none"> Live e-learning classes E-coaching, e-mentoring Instant messaging, SMS 	Virtual collaboration/asynchronous <ul style="list-style-type: none"> Email Online communities and discussion boards Listserve Blogs, wikis, podcasts
Self-paced learning (print, CD/DVD, electronic, wireless) <ul style="list-style-type: none"> Online modules Online resource links Simulations and scenarios Assessments and self-assessments Workbooks, readings 	Performance support <ul style="list-style-type: none"> Online help systems Print job aids Online knowledge databases Documentation Performance support tools

Adapted from (Rossett, Douglas, & France, 2003, July)

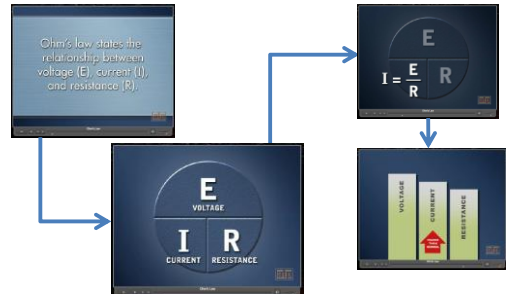
Blended Model #10. Degrees of Humanness (rely on computer-based feedback and interaction at first and switch to human feedback later on)



Part II: Some Blended Learning Solutions



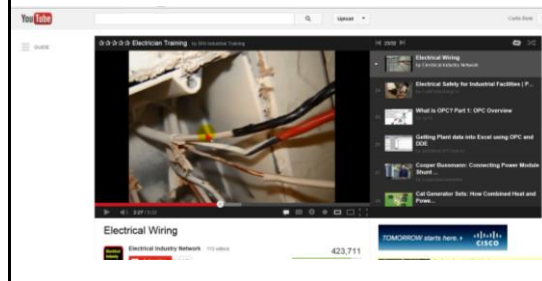
Blended Solution #1. Short Video Animations and Reflections (e.g., Ohm's Law)



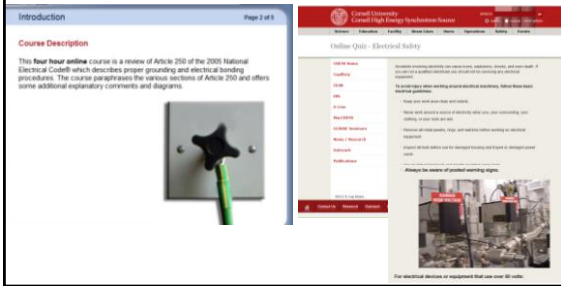
Blended Solution #2. Online Role Play or Debate (Tulane University, Exercise for Renewable Energy, Freeman Sch. of Business, roles include power traders, electric utility analyst, independent power producers & utility dispatchers)



Blended Solution #3. Anchor Course Concepts and Activities in Brief Shared Online Videos



Blended Solution #4. Online Practice Tests and Quizzes



Blended Solution #5. Just in Time or On-Demand Learning

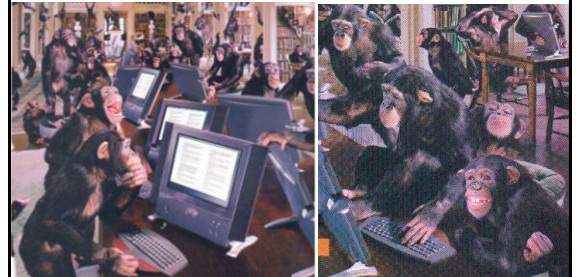


Again, this talk covered...

1. 1 Definition of blended learning
2. 10 Myths of blended learning
3. 10 Models of blended learning
4. 5 Examples of blended learning



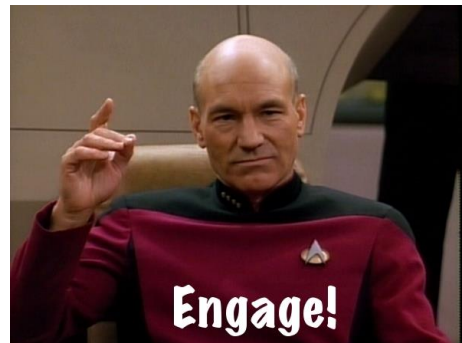
Part II: Wait, we are not done yet!



What did Jean-Luc Picard say?



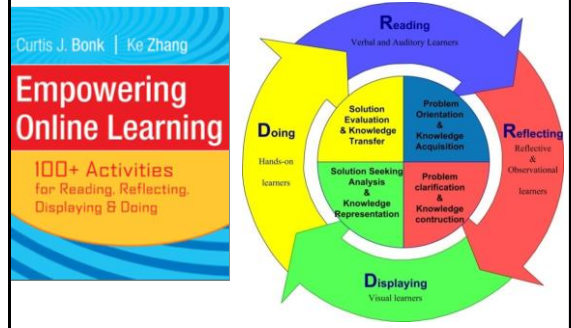
That's right, Engage!



How can technology address diverse learner needs?



Framework #1: The R2D2 Model



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. Collect and Listen to Interactive Stories

(e.g., Meograph: <http://www.meograph.com/>)



Read 1b. Follow on Twitter

<https://twitter.com/USArmy>
<https://twitter.com/electricians>



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



Reflect 2a. Big Issue Reflections (Big Questions Online (BQO)), January 8, 2013 (e.g., Do We Have Souls?)

Reflect 2b.

Reflect on Virtual Timelines (Dipity, xtimeline, Simile, etc.)

- <http://www.usatoday.com/tech/news/story/2011-09-22/steve-jobs-dies/50672498/1>
- <http://www.usatoday.com/news/obituaries/story/2011-09-25/Martin-Luther-King-Jr.-Remembrance-Washington-DC-close-book/25136470/1?top>3&wps>
- <http://www.usatoday.com/story/file/movies/2013/04/20/harrison-ford-jackie-robbinson/2001283/>

3. Visual Learners

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



Display 3a. Virtualize Words Used (e.g., Wordle, Taggedo, Tagul, WordSift, Word It Out)

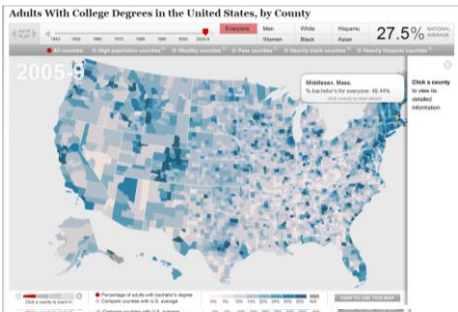
- <http://shellyterrell.com/2010/02/14/12-word-cloud-resources-tips-tools/>



Figure 4. PLENK2010 Wordle.

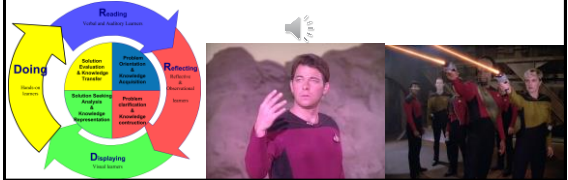
Display 3b. Concept Mapping and Timeline Tools (VUE, Bubbl.us, Cmap, Freemind, Glify, Mindmeister, or Mindomo)

Display 3c. Interactive Map Timelines
(adults with college degrees by county, May 7, 2012)



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.



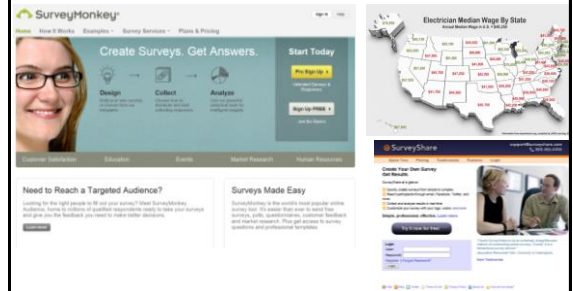
Do 4a. Student Class Documentaries
Umida's R546 Documentary Project

http://www.youtube.com/watch?v=EMLTzqCV_5A



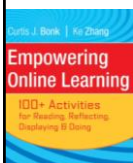
Do 4b.

Survey Research and Market Analysis
(e.g., SurveyShare, Zoomerang, SurveyMonkey)

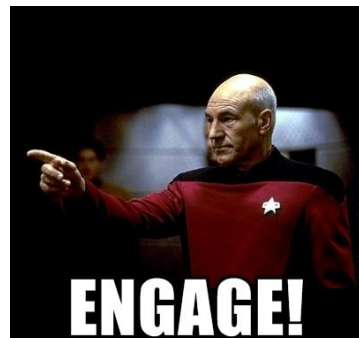


Poll #3: What phase of the R2D2 Method did you get the most ideas from ?

- Read (Auditory and Verbal Learners)
- Reflect (Reflective Learners)
- Display (Visual Learners)
- Do (Tactile, Kinesthetic, Exploratory Learners)



Where to next?



Sleepy U?



February 24, 2013 Big (MOOC) Data, Inside Higher Education, Dayna Catropa

<http://www.insidehighered.com/blogs/strataday/big-mooc-data>



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.



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.



Ok, Million Dollar Question: What words come to mind when I say that I want to motivate learners?



Framework #2: TEC-VARIETY 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

Examples of TEC-VARIETY



1. Tone/Climate: Social Ice Breakers

A. 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: B. Video Course Intros

<http://www.youtube.com/watch?v=jWOUyqSnKLO>



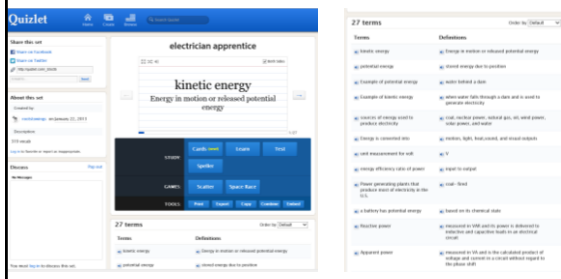
2. Encouragement, Feedback, etc.: A. Voice Feedback

Vocaroo; <http://vocaroo.com/>
<http://vocaroo.com/i/s0iiAqCoVTH7> (Fort Sill)



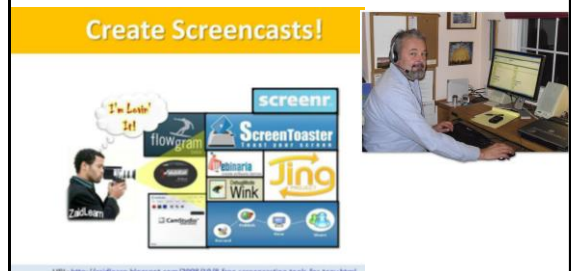
2. Encouragement, Feedback, etc.: B. Quizlet (online quiz tools)

<http://quizlet.com/>



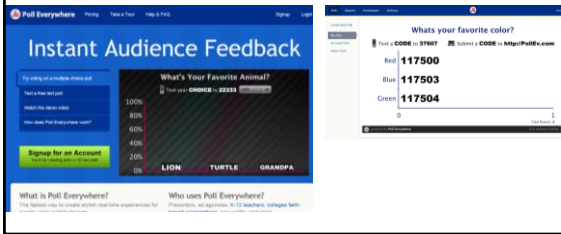
2. Encouragement, Feedback, etc.: C. Create Screencasts

(Jing, GoView, Screenr, slide from Zaid Ali Alsagoff [zaid.alsagoff@gmail.com])



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

<http://www.pollerywhere.com/>



3. Curiosity, Fun, Fantasy, Control: A. Online Database Activities (e.g., WolframAlpha)

<http://www.wolframalpha.com/>



3. Curiosity, Fun: B. Something in the News (e.g., Fauja Singh, 101, finishes last race, February 24, 2013)

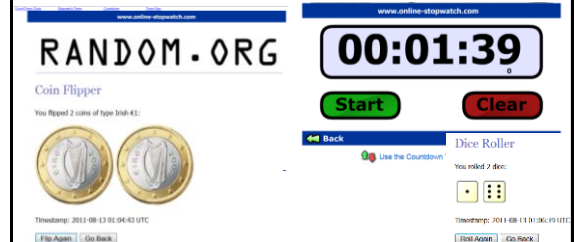
http://espn.go.com/sports/endorsement/story/_/id/8929487/fauja-singh-101-caps-career-10k-hong-kong

Fauja Singh, 101, finishes last race



4. Variety, Novelty, Fun, Fantasy: A. Timers (Random.org, Stopwatches, coins, playing cards, dice, Countdown Timers, Stopwatch Bombs, etc.)

<http://www.online-stopwatch.com/countdown-timer/>



5. Autonomy, Choice: B. Commonwealth of Learning, March 2013

http://www.col.org/news/Connections/2013Mar/Documents/Connections_March2013.pdf

ONLINE COURSE DEVELOPMENT FOR TEACHER EDUCATION IN JAMAICA



6. Relevance, Meaningfulness: A. Video Scenario Learning (Franklin University, cost and forensic accounting course)

http://video.franklin.edu/Franklin/acct/managerial/accounting/cost_behavior_player.html
<http://www.youtube.com/watch?v=cJmos1SuqQ8&list=TLzvmMALKW1T>



6. Relevance, Meaningfulness: B. Design Multimedia Glossaries

Ozgur Ozdemir, December 2012
<http://r685glossary.shutterfly.com/>
 Umida Khikmatillaeva, Dec. 2011, P540
<http://learningplanet.shutterfly.com/>

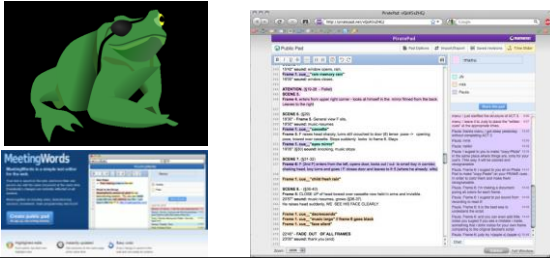


7. Interactive, Collaborative: A. Collaboration and Discussion in Google Hangouts (January 29 and February 25, 2013)



7. Interactive, Collaborative: B. Negotiate Meanings Online (e.g., PiratePad: <http://meetingwords.com/>)

MeetingWords is a simple text editor for the web.
 Your text is saved on the web, and more than one person can edit the same document at the same time.
 Everybody's changes are instantly reflected on all screens. Work together on meeting notes, brainstorming sessions, homework, team programming and more!



8. Engagement, Effort: A. Arab spring: an interactive timeline of Middle East protests, The Guardian, Garry Blight, and Sheila Pulham, July 12, 2011 <http://www.guardian.co.uk/world/interactive/2011/mar/22/middle-east-protest-interactive-timeline>



9. Tension, Challenge, etc.: A. Decision-Making Scenarios (e.g., Articulate Storyline http://articulate.demos.s3.amazonaws.com/broken_co-worker/story.html)



9. Tension, Challenge, etc.: B. Combining Asynchronous and Synchronous Events (flipping classes)



10. Yields Products, Goals:

A. Final Product Video Summaries

Piercarlo Abate: <http://www.youtube.com/watch?v=-TURzHO0aU>
 Gagnam: <http://www.youtube.com/watch?v=7Q429lqxZaU&feature=youtu.be>
 Miguel Lara (Web 2.0 FREEDOM): <http://www.youtube.com/watch?v=8cmCFW19IW8>



Commitments:

Stop and Share:

Which principle(s) of TEC-VARIETY will you use?

Tone/Climate
Encouragement, Feedback
Curiosity

Variety
Autonomy
Relevance
Interactive
Engagement
Tension
Yields Products



Poll #3:
 Do you feel "MOTIVATED" to try any of this out?
 A. Yes, R2D2
 B. Yes, TEC-VARIETY
 C. Yes, both
 D. Neither



DON'T JUST WISH FOR A GREAT 2013,



Stop and Share:
 Three Words from Today's Session!



Any Questions?
 Try the R2D2 Model!
 Try TEC-VARIETY too...



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

