Adding Motivation to Online and Blended Courses and Activities with the TEC-VARIETY Model

Curtis J. Bonk, Professor, Indiana University
cjbonk@indiana.edu
http://mypage.iu.edu/~cjbonk/

New Instructor Roles
(Concierge, Curator, Counselor, etc.)

June 13, 2014
Learning should be joyful,
Heather Stacker, Blog Post, Clayton Christensen Institute
http://www.christenseninstitute.org/learning-should-be-joyful/

Motivation and Engagement

Motivation and Engagement

Motivation Research Highlights
(Jere Brophy, Michigan State University)
1. Supportive, appropriate challenge, meaningful, moderation/optimal.
2. Teach goal setting and self-reinforcement.
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.

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)

Framework: TEC-VARIETY for Online Motivation and Retention (May 2014)

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

Introducing the “TEC-VARIETY book…”

http://tec-variety.com/

Examples of TEC-VARIETY

1. Tone/Climate: A. Video Introductions, e.g., Flipgrid
   http://flipgrid.com/#429f68c5
2. Tone/Climate: B. Share Visuals of Favorite Places (e.g., Panoramio)
   http://www.panoramio.com/

1. Tone/Climate: A. Video Introductions, e.g., Flipgrid
   http://flipgrid.com/#429f68c5

2. Encouragement, Feedback, etc.: A. Voice Feedback
   Vocaroo: http://vocaroo.com/
   http://vocaroo.com/i/s1ccDbzA2IN (Wisconsin)
2. Encouragement, Feedback, etc.: B. Blog and Website Polling
(e.g., Poll Everywhere, BlogPolls, BlogPoll, MicroPoll)
http://www.polleverywhere.com/

2. Encouragement, Feedback, etc.: C. Demonstrations and Tutorials
Emerging technology specialist, IU UITS, Nitocris Perez,
May 29, 2014

3. Curiosity, Fun:
A. Something in the News
New ‘massive’ dinosaur skeleton discovered, USA Today,
September 5, 2014 (Dreadnoughtus)

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

3. Curiosity, Fun:
C. Online Quiz Games
Jeopardy Labs
https://jeopardylabs.com/play/ganttpardy

3. Curiosity, Fun:
D. Tracking the Life of a Scientist
(e.g., Brian J. Ford, independent scientist)
http://www.youtube.com/user/tellymonitor/Pp/a/s/1/LbGpAesKLqac
http://www.labnews.co.uk/news/prehistoric-revolution
3. Curiosity, Fun:
E. Twitter Fed Class Discussions
https://twitter.com/HeartCPR

3. Curiosity, Fun:
F. Historical Document Analyses
e.g., Book Traces
Find unique copies of 19th- and early 20th-century books on library shelves
http://www.booktraces.org/

3. Curiosity, Fun:
G. Cultural Blogs
(e.g., Dr. Kim Foreman, San Fran State Univ, Come and See Africa Blog;
http://comeandseeafrica.blogspot.com/)

4. Variety, Novelty, Fun:
A. External Guests
(e.g., Jay Cross, Internet Time Group)

4. Variety, Novelty, Fun:
B. Teach from Vietnam to the World
BBC News Asia, August 14, 2013
Even though he is now very elderly Vinh Bao (age 96) still teaches music,
using his computer to coach pupils across the globe.

5. Autonomy, Choice:
A. Design Multimedia Glossaries
Ozgur Ozdemir, December 2012
http://r685glossary.shutterfly.com/
Umida Khikmatillaeva, Dec. 2011, P540
http://learningplanet.shutterfly.com/
5. Autonomy, Choice: B. Enroll in a MOOC and Reflect Programming for Everyone
Chuck Severance, University of Michigan
https://www.coursera.org/course/pythonlearn
Open Knowledge: Changing the Global Course of Learning
September 2, 2014 to December 12, 2014, Stanford
https://class.stanford.edu/courses/Education/OpenKnowledge/Fall2014/about#

5. Autonomy, Choice: C. Class Central
https://www.class-central.com/
http://oedb.org/open/

5. Autonomy, Choice: D. Visual Library Search
Digital Public Library of America
http://dp.la/

5. Autonomy, Choice: E. Attend Webinar (pick weeks and reflect)
Cathy Davidson, The End of Higher Education
http://connectedcourses.net/thecourse/why-we-need-a-why/

5. Autonomy, Choice: F. Online Learning Object Repositories and Portals (shared content)
April 23, 2014
http://shakespearesbeehive.com/barets-alvearie

6. Relevance, Meaningfulness: A. Case-Based Learning: Instructor Cases (e.g., Mark Braun, IU)
6. Relevance, Meaningfulness:
B. Collect and Listen to Interactive Stories
(e.g., Meograph: http://www.meograph.com/)
Timelines with Oral Histories, Slavery and the Making of America
Time and Place, PBS

7. Interactive, Collaborative:
A. Collaboration and Discussion in Google Hangouts, Jabber, Skype, etc
(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!

7. Interactive, Collaborative:
C. Virtualize Words Used
(e.g., Wordle, Tagzedo, Tagul, WordSift, Word It Out)
http://shellyterrell.com/2010/02/14/12-word-cloud-resources-tips-tools/

8. Engagement, Effort:
A. Student Generated Timelines,
(e.g., Dipity, Simile, Xtimeline, Timeglider, Meograph)
(e.g., Raymond Chandler, The Big Sleep, Kate Hurst)
http://hurdinsuranceagency.com/thebigsleep/

8. Engagement, Effort:
B. Virtual Timelines from News Media
(How Facebook changed our lives, Marco della Cava, USA Today, February 3, 2014)
8. Engagement, Effort:
C. Guest Speaker Quotes
(Rey Junco, February 25, 2013)

8. Engagement, Effort:
D. Big Issue Reflections
(Big Questions Online (BQO)), May 27, 2014
e.g., What makes us generous? What is the difference
between knowledge and understanding?
https://www.bigquestionsonline.com/content/do-we-have-souls

8. Engagement, Effort:
E. Interpreting Infographics
April 17, 2014

8. Engagement, Effort:
F. Interactive Map Timelines
(adults with college degrees by county, May 7, 2012)

8. Engagement, Effort:
G. Data Visualization Tools (Harvard and MIT MOOCs)
Lawrence Biemiller, February 20, 2014, Chronicle of Higher Education

8. Engagement, Effort:
H. Map Trend Interpretations
e.g., Global Forest Watch (April 2014)
https://www.globalforestwatch.org/map/3/-3.72/27.00/ALL/grayscale/loss/596
8. Engagement, Effort:
I. Google Map Gallery
September 16, 2014
http://maps.google.com/gallery/

8. Engagement, Effort:
J. Interactive Timeline Maps,
October 22, 2014, Second immigration wave lifts diversity to record high, Edward Greg Toppo and Paul Overberg, USA Today

8. Engagement, Effort:
K. Medical Simulations and Practice Cases
The School of Medicine, University of Virginia
http://uvamagazine.org/articles/adjusting_the_prescription/

The newly expanded Medical Simulation Center lets medical trainees practice skills and case scenarios in clinical settings that mimic actual situations. Outside the operating room, a technology specialist manipulates vital signs on a patient simulator and controls the cameras recording the session.

8. Engagement, Effort:
M. Interactive Multimedia E-Books
June 10, 2014, Chronicle of HE, 300 images, more than 700 notes and explanations, multimedia annotations, video commentary, and two dozen videos.
Digital Dubliners: http://digitaldubliners.com/
James Joyce: http://joyceways.com/

9. Tension, Challenge, etc.:
A. Online Math Competitions
(i.e., Math March Madness, Greg Toppo, March 26, 2013, USA Today)
http://www.stargazette.com/article/20130326/NEWS02/303260008/Fibonacci-Final-Four-Math-March-Madness-coming
9. Tension, Challenge, etc.:
B. Vocabulary Competitions (e.g., Kids learning new words at warp speed, January 14, 2014, Greg Toppo (Georgia Scurletis, Dir of Curriculum Development, for Vocabulary.com) presents a banner to Marc Williams, Brooklyn Technical High School) 
Vocabulary.com: https://www.vocabulary.com/

July 10, 2014
9. Tension, Challenge, etc.:
C. Controversial Issue Debates 
Scholarly journal retracts 60 articles, smashes ‘peer review ring’, Fred Barbash, Washington Post

9. Tension, Challenge, etc.:
D. Cage Matches or Debates (with online audience topical suggestions) 
Cage Match on MOOCs at SXSWedu 2013 (Curt Bonk & Chuck Severance) 
Book 
Severance

10. Yields Products, Goals:
A. Multimedia Assignments and Final Product Video Summaries 
Piercarlo Abate: http://www.youtube.com/watch?v=_TURzHO0aU 
Qi Li, Gangnam: http://www.youtube.com/watch?v=7Q429lqxZaU&feature=youtu.be 
Miguel Lara (Web 2.0 FREEDOM): http://www.youtube.com/watch?v=8cmCFWi9lW8

10. Yields Products, Goals:
B. Student Class Documentaries 
Umida’s R546 Documentary Project 
http://www.youtube.com/watch?v=EMLTzqCV_SA

10. Yields Products, Goals:
C. Business Plans and Virtual Mentoring toward Goals, September 22, 2014, Chronicle of HE
10. Yields Products, Goals:
D. Goal Setting Tools
(e.g., I Done This, Milestone Planner, and 43 Things)

E. Uploading Mobile Books
(e.g., BookRix, http://www.bookrix.com/)

F. Student Mobile App Creation
The App Builder: http://www.theappbuilder.com/
Mintian Guo (April 2013): http://myapp.is/r685final

G. Fresh Writing, Interactive Archive of Exemplary First-Year Writing Projects
(University of Notre Dame, September 24, 2014)
https://freshwriting.nd.edu/

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

Any Questions?
Try TEC-VARIETY...
Slides at: TrainingShare.com
Papers: PublicationShare.com
Book: http://tec-variety.com/
Dr. Curt Bonk – CJBonk@Indiana.edu