Masterclass Part 2:
Adding Some TEC-VARIETY for
Online Motivation and Retention

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January 15, 2017
3 Reasons to Read the Higher Ed Supplement to National EdTech Plan
(e.g., conversation starter, examples of innovation, cross-section of expertise)
Joshua Kim, Inside Higher Ed

January 2017
Higher Education Supplement to the National Education Technology Plan
U.S. Department of Education, Office of Educational Technology

Poll #1: How many of you cannot keep up with educational technology reports and are frustrated?

January 7, 2017
Overworked? Join the club. Here's how to handle It.
Laura Petrecca, USA Today
http://www.usatoday.com/story/money/2017/01/07/overworked-americans/96235044/
Needed: New Models of Motivation and Engagement

Poll #2: What did Jean-Luc Picard say?

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)


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.

Poll #3: Million Dollar Question:
What words come to mind when I say that I want to motivate learners?

Framework #1: 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
Introducing the free “TEC-VARIETY” Framework...
http://tec-variety.com/

Examples of TEC-VARIETY

November 10, 2016
1. Tone/Climate:
A. Threaded Video Discussions and Questions (e.g., Flipgrid)
http://flipgrid.com/#429f88c5
Flipgrid: The Power of Student Voice

1. Tone/Climate:
B. Instructor Course Introductions
(Theatre 10 Intro Video, October 7, 2014, Elizabeth Dale, West Valley College)
hhttps://www.youtube.com/watch?v=WrZtec3Q4QA
Chuck Severance, U Michigan/Coursera, in Barcelona
http://www.youtube.com/watch?v=2dTIVwu8ETI
Chuck Severance, University of Michigan
https://www.coursera.org/course/pythonlearn

1. Tone/Climate:
C. Share Visuals of Favorite Places
(e.g., Panoramio)
http://www.panoramio.com/
2. Encouragement, Feedback:

A. Demonstrations and Tutorials
   (e.g., Jing, Scren, GoView, Screencast-o-matic, etc.)

B. Blog and Website Polling
   (e.g., Poll Everywhere, BlogPolls, BlogPoll, MicroPoll)
   http://www.polleverywhere.com/

C. Voice/Audio Feedback
   Vocaroo: http://vocaroo.com/
   http://vocaroo.com/delete/s0x8moQAYAiu/a37bbc9408bb8c95
   (Recorded by Curt Bonk for the Open University of China)

D. English Central
   https://www.englishcentral.com/videos#/!/index
   https://www.englishcentral.com/videos

March 27, 2017

3. Curiosity, Surprise, Intrigue, Unknowns:
   A. Summary and Comparison Maps
      #GeoawesomeMapOfTheDay
      https://twitter.com/geoawesome
      https://twitter.com/tweetGeoAwesomeMapOfTheDay
      https://www.instagram.com/p/BNwgvJfDAq3/
      https://twitter.com/hashtag/GeoawesomeMapOfTheDay?src=hash

July 21, 2017

3. Curiosity, Intrigue, Unknowns:
   B. Multimedia News
   (e.g., This may be the oldest surviving Photo of a human,
      November 7, 2014, CNN, Brandon Griggs; But this image, taken in Paris, France, in 1838)
April 17, 2017
3. Curiosity, Intrigue, Unknowns:
C. 1st woman to officially run Boston Marathon does it again, 50 years later
Emanuella Grinberg, CNN, USA Today

January 5, 2017
3. Curiosity, Intrigue, Unknowns:
D. Immediate Science
Move over T. rex, new dinosaur unveiled, Amanda Jackson, CNN
http://www.cnn.com/2016/01/14/living/titanosaur-new-dinosaur-on-display-new-york-museum/

January 30, 2017
3. Curiosity, Intrigue, Unknowns:
E. Immediate Science
Ancient human ancestor was a big mouth
Doyle Rice, USA Today

February 16, 2017
3. Curiosity, Intrigue, Unknowns:
F. Immediate Science
Woolly Mammoth Could Be ‘De-Extinct’ In 2 Years, Scientist Says
Hillary Hansan, CNN (video: 3:22)
http://www.huffingtonpost.com/entry/woolly-mammoth-elephant_us_58a62fa7e4b037d17d264477

February 19, 2017
3. Curiosity, Intrigue, Unknowns:
G. We thought New Zealand was an island nation. Scientists say it’s the tip of a ‘hidden continent.’
Avi Seik, The Washington Post
http://www.denverpost.com/2017/02/19/new-zealand-zealandia/

July 27, 2017
3. Curiosity, Intrigue, Unknowns:
H. Meet Corythoraptor: Newly found dinosaur resembles ostrich gone bad
Traci Watson, USA Today
February 16, 2017
3. Curiosity, Intrigue, Unknowns:
I. Crowdsourced Science
NASA wants you — to find a missing planet
Doyle Rice, USA Today (includes 1:09 video)
http://www.usatoday.com/story/tech/sciencefair/2017/02/16/planet-9-nasa/98007144/

August 3, 2017
See the exquisite fossil that revealed the colors of a giant armored nodosaur
Ben Gaurino, The Washington Post

August 9, 2017
The biggest dinosaur in history:
Archaeologists reveal 122ft long PATAGOTITAN
https://www.youtube.com/watch?v=4QohEL9_4_w

August 9, 2017
Titanosaurs: the largest animals ever to walk the Earth

June 7, 2017
Learning is More Immediate…
Oldest Fossils of Homo Sapiens Found in Morocco, Altering History of Our Species,

June 7, 2017
Learning is More Immediate…
Scientists Find 100 Million-Year-Old, Nearly Complete Baby Bird Trapped in Amber,
Ryan F. Mandelbaum, Gizmodo
Poll #4: Which of these ideas might you use?
A. Threaded video discussions (e.g., Flipgrid)
B. Video introductions (instructor or student)
C. Demonstrations and tutorials (Jing, Screenr, etc.)
D. Voice/Audio feedback (Vocaroo)
E. Crowdsourced Science
F. Something in the News
G. Summary and Comparison Maps
H. Immediate Science

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

October 5, 2016
4. Variety, Novelty, Fun, Fantasy:
B. Online Test/Quiz Review Games
(e.g., Jeopardy Rocks)
https://www.jeopardy.rocks/r511merve/

April 3, 2017
4. Variety, Novelty, Fun, Fantasy:
C. Kahoot!
http://getkahoot.com/
July 31, 2017
I'm in 'Kahoots' with Technology in the Classroom
Cassandra O'Sullivan Sachar, Faculty Focus
https://www.facultyfocus.com/articles/teaching-with-technology/articles/kahoots-technology-classroom/

April 3, 2017
4. Variety, Novelty, Fun, Fantasy:
D. Sli.do
https://www.sli.do/

July 17, 2017
4. Variety, Novelty, Fun, Fantasy:
E. Learning Chemistry in Virtual Reality,
Sarah Hardman, New Learning Times
1:38 video: https://vialogues.com/vialogues/play/38337/
All: http://curtbonk.com/chemistry-vr.html
1:58-2:00: http://curtbonk.com/chemistry-vr.html
5. Autonomy, Choice:
A. Enroll in a MOOC and Reflect (e.g., see Class Central)

B. Design Multimedia Glossaries
P540 Final Assignment: Nate Wynne, Supersized Personal Course Glossary
http://natewynne1982.wix.com/p540courseglossary
Ozgur Ozdemir, December 2011
http://r685glossary.shutterfly.com/
Umida Khikmatillaeva, Dec. 2011, P540
http://learningplanet.shutterfly.com/

C. Tracking the Life of a Computer Scientist (e.g., bio.com)
http://www.biography.com/people/steve-jobs-9354805
http://www.biography.com/people/ada-lovelace-20825323

D. 20% Time in Education
Kendal Rasnake & Troy Cockrum, IU

Poll #5:
Any light bulbs going off in your head so far...?
A. Yes definitely***
B. Yes maybe!
C. Not yet (but hopefully soon...)

December 8, 2015
5. Autonomy, Choice:
B. Design Multimedia Glossaries
P540 Final Assignment: Nate Wynne, Supersized Personal Course Glossary
http://natewynne1982.wix.com/p540courseglossary
Ozgur Ozdemir, December 2011
http://r685glossary.shutterfly.com/
Umida Khikmatillaeva, Dec. 2011, P540
http://learningplanet.shutterfly.com/

March 13, 2015
5. Autonomy, Choice:
D. 20% Time in Education
Kendal Rasnake & Troy Cockrum, IU

Jan. 20, Oct. 13, & Nov. 2016 (Zoom)
6. Relevance, Meaningfulness:
A. Weekly Guest Expert Chats
R511 Chat with Mike Molenda, IU
6. Relevance, Meaningfulness:

B. Case-Based Learning: Instructor Cases (e.g., Mark Braun, IU)

July 28, 2017

6. Relevance, Meaningfulness:

C. Case-Based Learning: Modern medicine breathes new life into virtual training


Videos


July 26, 2017

6. Relevance, Meaningfulness:

D. MOOC Class Meet-Ups

Beer Matters: Free Online Class With Meetups (September 6, 2017-October 21, 2017), Karl Brown, Assistant Professor of History

http://www.gazettextra.com/20150921/uw_whitewater_teacher_explores_links_between_germans_beer_politics

brownk@uww.edu

Video: http://curtbonk.com/beer.html (1:11)


September 20, 2016

6. Relevance, Meaningfulness:

E. Editing Wikipedia Pages

College students take to Wikipedia to rewrite the wrongs of Internet science, Rosanna Xia, LA Times


Samantha Erickson, left, of the Wiki Education Foundation; Tina Brock, a dean of the School of Pharmacy at UC San Francisco; and professor Amin Azzam discuss implementing the integration of Wikipedia pages on medical topics with students' work. (David Butow / For The Times)


January 20, 2017

6. Relevance, Meaningfulness:

F. The Changing Earth

http://thechangingearth.com/

7. Interactive, Collaborative:

A. Negotiate Meanings Online

(e.g., PiratePad: http://meetingwords.com/)

MeetingWords, Google Docs, NowComment, MixedInk
7. Interactive, Collaborative: 
  B. Virtual Sharing Walls  
  e.g., Padlet  (What is your secret recipe to engage?)  
  http://padlet.com/zaid_alisagoff/engage

7. Interactive, Collaborative: 
  C. Backchannel Chat  (Today'sMeet)  
  https://todaysmeet.com/R678_Emerging_Learning_Technologies

7. Interactive, Collaborative: 
  D. Guest Speaker Quotes  
  (Rey Junco, February 25, 2013)

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

Poll #6:  
Which of these ideas might you use?  
A. Student designed multimedia glossaries  
B. Edit Wikipedia pages  
C. Guest chats with former students  
D. Negotiate meanings online (e.g., PiratePad)  
E. Enroll in a MOOC  
F. Discussion in Zoom  
G. Guest speaker quotes

8. Engagement, Involvement:  
  B. Interactive Timelines  
  (Dipity, xtimeline, Simile, TimeLineCurator, etc.)  
  Amy Cavender, The Chronicle of Higher Education  

March 30, 2017

8. Engagement, Involvement:  
  B. Interactive Timelines  
  (Dipity, xtimeline, Simile, TimeLineCurator, etc.)
8. Engagement, Involvement:
C. Interactive Labs and Simulations
http://phet.colorado.edu/en/simulation/energy-skate-park

D. Videos with Test Questions (e.g., TEDEd)
(Lessons about every single element on the periodic table)

December 13, 2016
9. Tension, Challenge, Controversy, etc.:
A. Controversial Issue Debates
Librarians for Instructional Technology, Latrice Booker, R511, Fall 2016
http://bookerlr2000.wixsite.com/librariansforit/cognitivism
R511 Midterm Video How to Create an Authentic Environment in a Content-Driven School?, R511, Nick and Nik
https://www.youtube.com/watch?v=Bcr3_aZT_xQ&feature=youtu.be

October 16, 2015
9. Tension, Challenge, Controversy, etc.:
B. Case Learning from the News (e.g., Newseum Ed)

10. Yields Products, Goals:
A. Facebook Course Page (R546)
https://www.facebook.com/JennyBELTT/

B. Database Collection Tools
Design Article Database in Pinterest, Meina Zhu and Jennifer Weebeck
https://www.pinterest.com/zhumeina0000/678-emerging-learning-technology/
https://www.pinterest.com/jennifertwebeck/emerging-learning-technologies/
10. Yields Products, Goals: C. Student Created Recap Videos

Piercarlo Abate: http://www.youtube.com/watch?v=_TURzHO0aU
Qi Li, Gangnam: http://www.youtube.com/watch?v=7Q429lqxZaU
Miguel Lara (Web 2.0 FREEDOM): http://www.youtube.com/watch?v=8cmCFWi9lW8
Kendal Rasnake (Is IT Right For You?): https://www.youtube.com/watch?v=MJ3GUDICIGw
Kimberly Vincent Layton: https://www.youtube.com/watch?v=4Ic39_rYLII

March 12, 2016
10. Yields Products, Goals:
D. Student Generated Timelines, Taxonomies, and Concept Maps

R678 John Falchi, Timeglider, An Abbreviated History of Distance Education
http://timeglider.com/t/50843d8903a48008?min_zoom=1&max_zoom=100

Poll #7:
Which of these ideas might you use?
A. Interactive map timelines
B. Facebook course page (or Pinterest)
C. Issue challenges, role plays, and debates
D. Student designed course recap videos
E. Student infographics
F. Interactive timeline tools
G. Videos with test questions

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 #8: Three Words from this Session...
e.g., “I am happy!” and...
My minions are happy!

Any Questions or Comments?
Slides at: TrainingShare.com
Papers: PublicationShare.com
Free book: http://tec-variety.com/
Dr. Curt Bonk – CJBonk@Indiana.edu