Adding Some TEC-VARIETY for Online Motivation and Retention

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What did Jean-Luc Picard say?

That’s right, Engage!

Engage!

Poll #1: Million Dollar Question:
What words come to mind when I say that I want to motivate learners?

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, concretes, 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

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 “TEC-VARIETY book...”
http://tec-variety.com/

Low Risk
1. Risk
Easy to Embed
Extensive Planning

High Risk
2. Time
Free or Inexpensive
Enterprise Licenses

Low
3. Cost
Instructor-Focus
4. Student-Centered

High
Student-Focus

Examples of TEC-VARIETY

1. Tone/Climate: A. Video Introductions, e.g., Flipgrid
http://flipgrid.com/#429f88c5

1. Tone/Climate: B. Video Introductions (Office Hours in Other Countries)
Chuck Severance, U Michigan/Coursera in Barcelona
http://www.youtube.com/watch?v=2f9Hyne6sBTI
Chuck Severance, University of Michigan
https://www.coursera.org/course/pythonlearn
2. Encouragement, Feedback, etc.: A. Demonstrations and Tutorials
Emerging technology specialist, IU UITS, Nitocris Perez, May 29, 2014

2. Encouragement, Feedback, etc.: B. Voice Feedback
Vocaroo: http://vocaroo.com/
http://vocaroo.com/i/s1ao2YOyPI3 (Singapore)

2. Encouragement, Feedback, etc.: C. Online Practice Tests and Quizzes

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

3. Curiosity, Fun:
A. Videos and Online Quizzes
(e.g., Want to be an activist? Start with your toys - McKenna Pope , TEDEd)

3. Curiosity, Fun:
B. Something in the News
(e.g., Protestors stage anti-robot rally at SXSW, USA Today, Jon Swartz)
http://www.usatoday.com/story/tech/2015/03/14/sxsw-robot-ai-protest-artificial-intelligence/24777871/

March 15, 2015
3. Curiosity, Fun:
B. Something in the News
3. Curiosity, Fun: C. Something in the News
New ‘massive’ dinosaur skeleton discovered, USA Today, September 5, 2014 (Dreadnoughtus)
October 23, 2014: Goofy dinosaur blends Barney and Jar Jar Binks, SF Gate
January 20, 2015: Naomi Ng, for CNN

3. Curiosity, Fun: D. Something in the 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)

3. Curiosity, Fun: E. Tracking the Life of a Computer Scientist (bio.com)
http://www.biography.com/people/steve-jobs-9354805
http://www.biography.com/people/ada-lovelace-20825323

3. Curiosity, Fun: F. Tracking the Life of a Computer Scientist (Wikipedia)

4. Variety, Novelty, Fun:
A. 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.

4. Variety, Novelty, Fun, Fantasy:
B. Random Lists (Random.org—clocks, coins, playing cards, dice, integers, passwords, jazz scales, lists, sequences, etc.)
March 13, 2015
5. Autonomy, Choice:
A. 20% Time in Education
Kendal Rasnake & Troy Cockrum, IU

March 5, 2015
5. Autonomy, Choice:
B. Class Central
Gaming Literacy and Learning, MOOC in Canvas,
Hui-Yin Hu & Dr. Shiang-Kwei Wang
https://www.class-central.com/
http://oeedb.org/open/

5. Autonomy, Choice:
C. 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:
D. Design Multimedia Glossaries
Ozgur Ozdemir, December 2012
http://r685glossary.shutterfly.com/
Umida Khikmatillaeva, Dec. 2011, P540
http://learningplanet.shutterfly.com/

5. Autonomy, Choice:
E. Design Article Database in Pinterest,
Jenny Webeck
https://www.pinterest.com/jennifertwebeck/emerging-learning-technologies/
5. Autonomy, Choice:

F. Design Article Database in Facebook, Jenny Webeck
https://www.facebook.com/JennyBELTT/timeline

G. Visual Library Search
Digital Public Library of America
http://dp.la/

5. Autonomy, Choice:

H. Online Learning Object Repositories and Portals (e.g., Computer Programming)

6. Relevance, Meaningfulness:

A. Guest Chats (e.g., Emily Hixon, January 20, 2015)
https://connect.iu.edu/p259wpiabg9/

B. 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/342/common/fraudScenario02.html

C. Case-Based Learning: Instructor Cases (e.g., Mark Braun, IU)
7. Interactive, Collaborative:
A. 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!

January 27, 2015

7. Interactive, Collaborative:
B. Backchannel Chat (Today's Meet)
https://todaysmeet.com/
R678_Emerging_Learning_Technologies
https://todaysmeet.com/R678_Emerging_Learning_Technologies

October 4, 2014

7. Interactive, Collaborative:
C. R546 Facebook Group
Dr. Bonk’s creative fun time group (R546)
https://www.facebook.com/groups/830496290323899/

7. Interactive, Collaborative:
D. Multiple Guest Experts
Sara de Freitas and Jim Hensman, U of Coventry, UK
https://connect.iu.edu/p2ie1yx6z6x/
Jay Cross, Berkeley
https://connect.iu.edu/p4bytsoronh/

7. Interactive, Collaborative:
E. Collaboration and Discussion in Google Hangouts, Jabber, Skype, etc
(January 29 and February 25, 2013)

8. Engagement, Effort:
F. Guest Speaker Quotes
(Rey Junco, February 25, 2013)
8. Engagement, Effort:
G. Map Trend Interpretations
e.g., Global Forest Watch (April 2014)
http://www.globalforestwatch.org/map/3/?:3.72/27.00/ALL/grayscale/loss/596

8. Engagement, Effort:
H. Google Map Gallery
September 16, 2014
http://maps.google.com/gallery/

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

8. Engagement, Effort:
J. 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. Cage Matches or Debates
(with online audience topical suggestions)
Cage Match on MOOCs at SXSWedu 2013
(Curt Bonk & Chuck Severance)
https://soundcloud.com/sxswedu/cage-match-the-massive-open
March 15, 2015

9. Tension, Challenge, etc.:
B. Controversial Issue Debates
SXSW: Tackling the growing gender gap in technology
Mike Snider, USA Today
March 13, 2015
9. Tension, Challenge, etc.:
C. Controversial Issue Debates
RS11 Midterm Video How to Create an Authentic Environment in a Content-Driven School?, RS11, Nick and Nik
https://www.youtube.com/watch?v=8cr3_a2T_xQ&feature=youtu.be

March 13, 2015
9. Tension, Challenge, etc.:
D. Controversial Issue Debates
Gamification, Jeff Jenkins and Melody Childs, IU
https://www.youtube.com/watch?v=DYe85LMiq5w

March 13, 2015
9. Tension, Challenge, etc.:
E. Controversial Issue Debates: Flipped Classroom, Board Meeting, Nora and Lauren, IU
https://www.dropbox.com/sh/geijknepvtjmxdc/AAAuQ9JCBcEtaiBcC-7LxPuCa?dl=0#lh:null-b03ea104-0935-a723_1329.mp4

March 13, 2015
10. Yields Products, Goals:
A. Course Video Summaries and Multimedia Team Assignments (April. 24, 2014)
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. Uploading Mobile Books (e.g., BookRix, http://www.bookrix.com/)

10. Yields Products, Goals:
C. Student Mobile App Creation
The App Builder: http://www.theappbuilder.com/
Mintian Guo (April 2013): http://myapp.is/r685final

This video was made by Robert L. Denisi, a professor of psychology at Indiana State, who took Mr. Larrañaga’s course on filmmaking and went on to make a series of videos to use in his own courses.
January 23-25, 2015

10. Yields Products, Goals:
D. Global Game Jam

25,000 participants. 518 jam sites. Egypt had more than 800 participants. Over 5,000 games made. Includes Belarus, Cuba, Ecuador, Faroe Islands, Georgia, Ghana, Guatemala, Guernsey and Luxembourg as first time participants. 
http://globalgamejam.org/news/ggj15-closes (reflect, discuss, etc.)

10. Yields Products, Goals:
E. Business Plans and Virtual Mentoring toward Goals, September 22, 2014, Chronicle of HE

http://chronicle.com/article/Start-Up-Slow-Down/148923/?cid=at

10. Yields Products, Goals:
F. Goal Setting Tools
(e.g., I Done This, Milestone Planner, and 43 Things)

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/
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