Masterclass: Engaging Online and Blended Learning: Introducing the TEC-VARIETY Model

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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.

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

TEC-VARIETY Recap

Introducing the free “TEC-VARIETY” Framework...
http://tec-variety.com/
November 10, 2016

1. Tone/Climate:
   A. Threaded Video Discussions and Questions
      (e.g., Flipgrid)
      http://flipgrid.com/#429188c5
      Flipgrid: The Power of Student Voice

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

   B. Voice/Audio Feedback
      Vocaroo: http://vocaroo.com/
      http://vocaroo.com/delete/s9xYg9QAYAiu/a37b2c949bb8c95
      (Recorded by Curt Bonk for the Open University of China)
March 27, 2017
3. Curiosity, Surprise, Intrigue, Unknowns:
A. Summary and Comparison Maps
#GeoawesomeMapOfTheDay
https://twitter.com/geoawesomeness
https://www.instagram.com/p/BNwgvJfDAq3/
https://twitter.com/hashtag/GeoawesomeMapOfTheDay?src=hash

November 29, 2017
3. Curiosity, Surprise, Intrigue, Unknowns:
B. Summary and Comparison Maps
A Map Showing How Much Time It Takes to Learn Foreign Languages: From Easiest to Hardest, Open Culture

April 17, 2017
3. Curiosity, Intrigue, Unknowns:
D. 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:
E. 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-airport/

January 31, 2018
3. Curiosity, Intrigue, Unknowns:
F. Dinosaur Discoveries
'Holy Grail' of dinosaur fossils discovered in Egyptian desert
Doyle Rice, USA Today

A new species of dinosaur has been discovered in Sahara Desert. It’s an extremely rare discovery because dino fossils are not known to be in that part of the world. USA TODA
January 30, 2017
3. Curiosity, Intrigue, Unknowns:
G. Immediate Science
Ancient human ancestor was a big mouth
Doyle Rice, USA Today

October 5, 2016
4. Variety, Novelty, Fun, Fantasy:
B. Online Test/Quiz Review Games
(e.g., Jeopardy Rocks)
https://www.jeopardy.rocks/r51merve/

April 3, 2017
4. Variety, Novelty, Fun, Fantasy:
C. Kahoot!
https://getkahoot.com/
July 31, 2017
I'm in 'Kahoots' with Technology in the Classroom
Cassandra OSullivan 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
01-41: http://curtbonk.com/chemistry-vr-1.html
41-1:16: http://curtbonk.com/chemistry-vr-2.html
All: http://curtbonk.com/chemistry-vr.html
01-41: http://curtbonk.com/chemistry-vr-1.html
41-1:16: http://curtbonk.com/chemistry-vr-2.html
5. Autonomy, Choice:
A. Enroll in a MOOC and Reflect (e.g., see Class Central)

5. Autonomy, Choice:
B. Design Multimedia Glossaries
P540 Final Assignment: Nate Wynne, Superpowered Personal Course Glossary
http://natewynne1982.wix.com/p540courseglossary
Ozgur Ozdemir, December 2012
http://r685glossary.shutterfly.com/
Umida Khikmatillaeva, Dec. 2011, P540
http://learningplanet.shutterfly.com/

5. Autonomy, Choice:
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

Jan. 20, Oct. 13, & Nov. 2016 (Zoom)
6. Relevance, Meaningfulness:
A. Weekly Guest Expert Chats
RS11 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
07:56: http://curtbonk.com/vr-medicine2.html
1:30: http://curtbonk.com/vr-medicine4.html
September 3, 2017
6. Relevance, Meaningfulness:
D. Mindmap Recaps of Online Discussions
Mindmap of Week 2 of R511

September 20, 2016
6. Relevance, Meaningfulness:
F. 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)

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_alsagoff/engage

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

February 14, 2018
8. Engagement, Involvement:
B. Maps
This map shows where more Americans are willing to support free speech
The Monkey Cage, The Washington Post

March 30, 2017
8. Engagement, Involvement:
C. Interactive Timelines
(Dipity, xtimeline, Simile, TimeLineCurator, etc.)
Amy Cavender, The Chronicle of Higher Education

8. Engagement, Involvement:
D. Interactive Labs and Simulations
http://phet.colorado.edu/en/simulation/energy

8. Engagement, Involvement:
E. Videos with Test Questions (e.g., TEDEd)
(Lessons about every single element on the periodic table)

8. Engagement, Involvement:
F. Interpreting Infographics
August 5, 2015
How much rainforest in that chocolate bar?
Global Forest Watch, Nancy Harris, Octavia Payne and Sarah Mann
http://blog.globalforestwatch.org/2015/08/how-much-rainforest-is-in-that-chocolate-bar/
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/librariansfort/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

February 16, 2017
9. Tension, Challenge, Controversy, etc.: B. Yes, Mr. President, We Remade Our Atlas to Reflect Shrinking Ice
Christine Dell’Amore, National Geographic, August 3, 2015

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

10. Yields Products, Goals: B. Database Collection Tools
Design Article Database in Pinterest, Meina Zhu and Jennifer Weebeck
https://www.pinterest.com/zhumeina0000/r-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=_TURzHOo0aU
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
Kendal Rasnake (Is IT Right For You?): https://www.youtube.com/watch?v=MJ3GUDICIGw
March 12, 2016

10. Yields Products, Goals:
   D. Student Generated Timelines, Taxonomies, and Concept Maps
R678 John Falchi, Timoglider, An Abbreviated History of Distance Education
http://timeglider.com/t/50843d8903a48008?min_zoom=1&max_zoom=100

December 12, 2017

Yields Products, Goals:
   F. Student Website Development
R511 John Falchi, Timoglider, An Abbreviated History of Distance Education
http://timeglider.com/t/50843d8903a48008?min_zoom=1&max_zoom=100

TEC-VARIETY Recap

What about R2D2?

Any Questions or Comments?

Slides at: TrainingShare.com
Papers: PublicationShare.com
Free book: http://tec-variety.com/
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