

Learning is Changing Part 2: Quality Matters, Faculty Preparedness, and the TEC-VARIETY Model

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So what is online quality?



QUALITY MATTERS QM

<https://www.qualitymatters.org/rubric>
<http://odl.arizona.edu/about/quality-matters>

The Eight General Standards:

1. Course Overview and Introduction
2. Learning Objectives (Competencies)
3. Assessment and Measurement
4. Instructional Materials
5. Course Activities and Learner Interaction
6. Course Technology
7. Learner Support
8. Accessibility and Usability

OFFICE OF DIGITAL LEARNING FOCUS

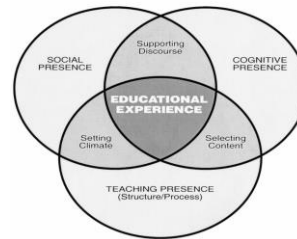


What is Alignment?

Critical course components - Learning Objectives (2), Assessment and Measurement (3), Resources and Materials (4), Learner Engagement (5), and Course Technology (6) - work together to ensure that students achieve the desired learning outcomes. When aligned, each of these course components is directly tied to and supports the learning objectives. Specific Review Standards included in alignment are indicated in the Rubric Annotations.

So what is online quality?

Community of Inquiry

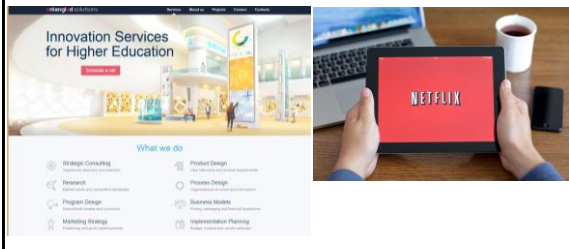


February 7, 2016

When They Promise the Netflix for Education, Cover Your Wallet

Inside Higher Ed, John Warner

<https://www.insidehighered.com/digital-learning/article/2016/02/07/netflix-education-cover-your-wallet>
 ©2016 The College Board. All rights reserved. 10116-2152-1373-2401

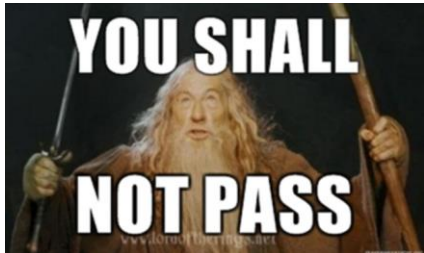


Instructor Roles Changing (Instructor as Cat Herder?)



Poll #1:

Do you really remember those days of the lecture?



Learning is More Interactive and Collaborative



From Instructor as Credit Manager...to...



1. Instructor as Counselor



2. Instructor as Consultant



Instructor as Conductor



4. Instructor as Course Ambassador



5. Instructor as Curator



6. Instructor as Concierge



Age of Instructor as Curator, Concierge, Counselor, etc.



This Generation of Students



Needed: New Models of Motivation and Engagement



Poll #2: Do you know what happens to sleeping students?



IF YOU DON'T STUDY

You shall not pass!

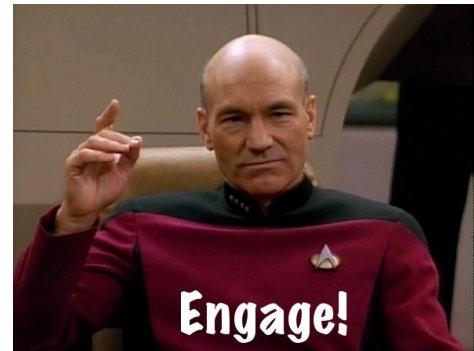
How do we engage online?



What did Jean-Luc Picard say?



That's right, Engage!



Poll #3: 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.
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.



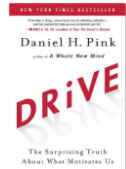
Poll #4:
Read any good books lately?



1. Drive: The Surprising Truth About What Motivates Us
Daniel Pink (2009)

Pinkcast 2.

Advice from Adam Grant: Look for "disagreeable givers"



2. Grit: The Power of Passion and Perseverance
Angela Duckworth (2016)



3. Mindset: The New Psychology of Success
Carol Dweck (2006)

<http://mindsetonline.com/index.html>

- Growth vs. fixed (i.e., entity) theories of intelligence
- Intelligence is not fixed
- Practice, practice, practice
- Do not blame others
- Learning goals over performance goals
- Asks: What can I learn from this?
- Asks: How can I improve?



May 11, 2016
Carol Dweck Says Theory of Educational Mind-Set Is Often Misunderstood
Goldie Blumenstyk, Chronicle of Higher Education

<http://www.chronicle.com/article/Carol-Dweck-Says-Theory-of-Educational-Mind-Set-Is-Often-Misunderstood>

THE CHRONICLE OF HIGHER EDUCATION



Carol Dweck, a psychologist at Stanford U., examines "the whole question of why some people take on challenges and see them through."

4. Creativity, Inc. (2014)
Ed Catmull, President of Pixar Animation and Disney Animation

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



Poll #5: What if you read these books?



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.



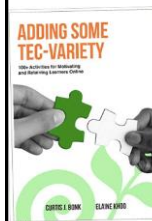
Framework: TEC-VARIETY for Online Motivation and Retention

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 free "TEC-VARIETY" Framework...

<http://tec-variety.com/>

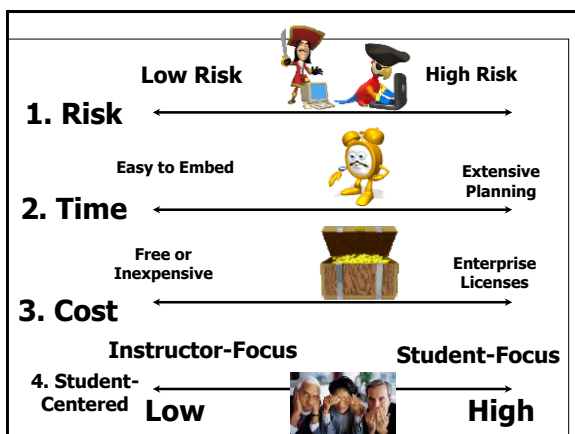
<http://tec-variety.com/TEC-VARIETY-Chinese.pdf>



在线学习动机与激励： TEC-VARIETY 模型

——激励和留住在线学习者的 100 个活动

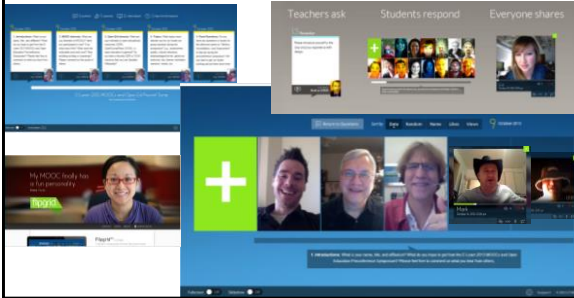
作者: Curtis J Bonk & Elaine Khoo IU



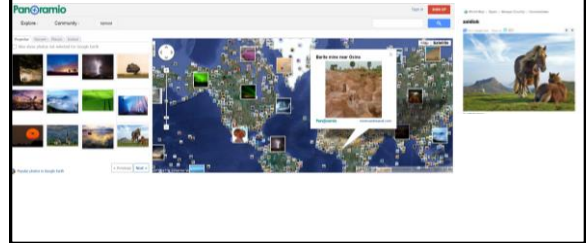
Examples of TEC-VARIETY



1. Tone/Climate: A. Threaded Video Discussions, e.g., Flipgrid
<http://flipgrid.com/#429f88c5>

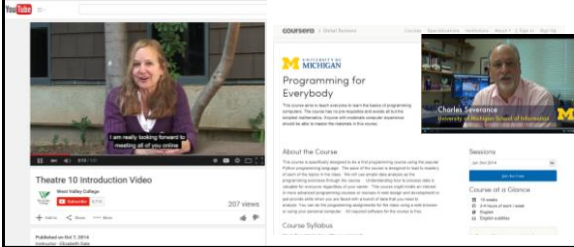


1. Tone/Climate: B. Share Visuals of Favorite Places (e.g., Panoramio, <http://www.panoramio.com/>)



1. Tone/Climate: C. Instructor Course Introductions

(Theatre 10 Intro Video, October 7, 2014, Elizabeth Dale, West Valley College)
<https://www.youtube.com/watch?v=Wzbzc3Qjia>
 Chuck Severance, U Michigan/Coursera) in Barcelona
<http://www.youtube.com/watch?v=JzNHvmSv8TI>
 Chuck Severance, University of Michigan
<https://www.coursera.org/course/pythonlearn>

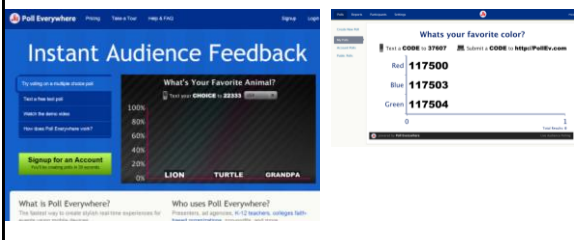


2. Encouragement, Feedback, etc.: A. Demonstrations and Tutorials
 Emerging technology specialist, IU UITS, Nitocris Perez,
May 29, 2014

<http://inside.iub.edu/features/videos/2014-05-29-inub-vid-cib.shtml>



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



May 25, 2015
3. Curiosity, Fun: A. Something in the News
 (e.g., Chinese universities move up in world rankings, China Daily)

https://www.cnn.com/2015/05/22/health/healthy-segmi/index.html#hpt_hp_12
https://espn.go.com/sports/endurance/story/_/id/10279487/fauja-singh-101-cases-cancer-10k-hung-hong
https://en.wikipedia.org/wiki/Fauja_Singh



January 14, 2016
3. Curiosity, Fun:
B. Something in the News
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-trip/>



Scientists to drill at site of dinosaur-killing asteroid crater

April 1, 2016
3. Curiosity, Fun:
C. Something in the News
(e.g., Potential Vikings site in North America spotted from space, Jareen Inman, CNN)
<http://www.cnn.com/2016/04/01/world/vikings-site-spaced-1/rst/index.html>



Potential Vikings site in North America spotted from space

How Far Did The Vikings Travel?

November 19, 2015
3. Curiosity, Fun: D. Something in the News
New daddy longlegs named after 'Lord of the Rings'




3. Curiosity, Fun:
E. 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)
http://www.cnn.com/2014/11/06/living/oldest-photograph-human-daguerre/index.html?hpt=hp_4d_kong



This may be the oldest surviving photo of a human

April 29, 2016
3. Curiosity, Fun:
F. Something in the News
Treasure trove: Farmer discovers 4,000 Roman coins in Swiss orchard
<http://www.cnn.com/2015/11/20/luxury/roman-coins-switzerland-farmer/index.html>
<http://www.cnn.com/2016/04/29/europe/spain-roman-coins-found/index.html>



Enormous 1,300 lb haul of ancient Roman coins unearthed in Spain

ATLAS: THEY WERE FOUND INSIDE 19 AMPHORAS, A TYPE OF ROMAN JUG

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



RANDOM.ORG **RANDOM.O**

Coin Flipper: You flipped 2 coins of type 194b-41: [Image of two coins]

Dice Roller: You rolled 2 dice: [Image of two dice]

List Randomizer: There were 10 items in your list. Here they are in random order: [List of names]

4. Variety, Novelty, Fun, Fantasy:

B. Voice/Audio Feedback

Vocaroo: <http://vocaroo.com/>
<http://vocaroo.com/deletes/s0x8moQAYAiu/a37bbc9408bb8c95>
 (Recorded by Curt Bonk for the Open University of China)



4. Variety, Novelty, Fun, Fantasy:

C. Video Editing and Commenting Tools

(e.g., TubeChop)

How Does It Work?

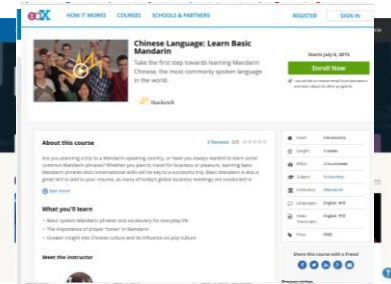


1. Find the video you want to chop.
2. Select & cut interesting part of the video.
3. Share it with friends.

Watch Examples

5. Autonomy, Choice:

A. Enroll in a MOOC and Reflect (e.g., see Class Central)



December 8, 2015

B. Design Multimedia Glossaries

P540 Final Assignment: Nate Wynne, Supersized Personal Course Glossary
<http://natewynne1982.wix.com/p540courseglossary>
 Ozgur Ozdemir, December 2012
<http://r685glossary.shutterfly.com/>
 Umida Khikmatillaeva, Dec. 2011, P540
<http://flammyvialshutterfly.com/>



5. Autonomy, Choice:

C. Video Repositories and Portals (e.g., Khan Academy, Computer Programming)

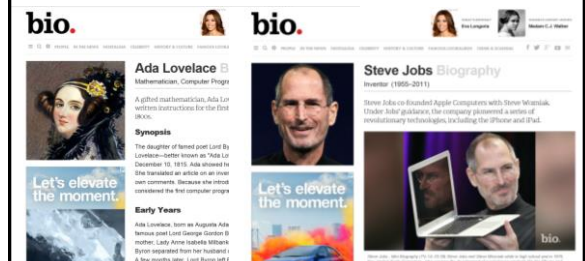
<https://www.khanacademy.org/computing/computer-programming>



5. Autonomy, Choice:

D. 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>



Poll #6:
Any light bulbs going off in your head so far...?


A. Yes definitely***
B. Yes maybe!
C. Not yet (but hopefully soon...)




6. Relevance, Meaningfulness:
A. Guest Chats (e.g., Emily Hixon, January 20, 2015)
<https://connect.iu.edu/p259wpiabq9/>




October 16, 2015
6. Relevance, Meaningfulness:
B. Case Learning from the News
 (e.g., Newseum Ed)
<https://newseum.edu/>




June 12, 2015
6. Relevance, Meaningfulness:
C. Something in the News and Infographic
 Twitter CEO Dick Costolo replaced by co-founder Jack Dorsey, Laura Onita



7. Interactive, Collaborative:
A. Negotiate Meanings Online
 (e.g., PiratePad: <http://meetingwords.com/>)
<http://blisselon.edu/technology/6-collaborative-writing-applications-for-group-projects-or-niners/MeetingWords, Google Docs, NowComment, MixedInk>

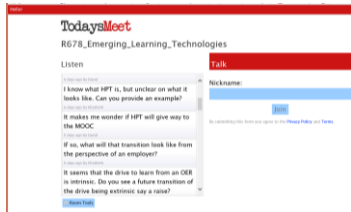


7. Interactive, Collaborative:
B. Virtual Sharing Walls, April 6, 2015
 e.g., Padlet (what is your secret recipe to engage?)
http://padlet.com/zaid_alsagoff/engage



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. Synchronous Interactions
 (e.g., Skype, Zoom, Google Hangouts, Flat Connections, etc.)

<http://www.flatconnections.com/>
 Global Collaboration Projects that Go Way Beyond Skype



April 28, 2016
7. Interactive, Collaborative:
E. Shindig, Video Chat Tool
 Future Trends Forum
 (with Bryan Alexander)
<https://bryanalexander.org/>

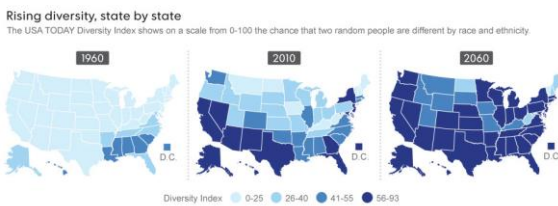


8. Engagement, Effort:
A. Intercultural learning

Virtual and on-site exchanges between York University students, refugee students on the Thai Burma border and displaced migrant students in Ranong, Thailand, and York University, Toronto, Canada
<http://aifprojects.yorku.ca/projects/intercultural-learning-thailand-2012-13/>

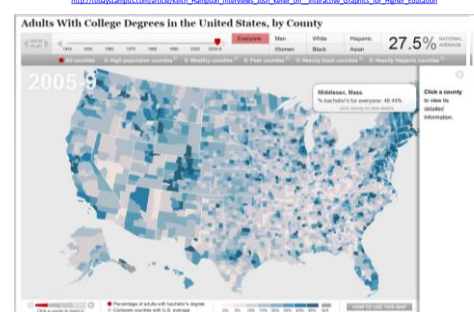


8. Engagement, Effort:
B. Interactive Timeline Maps,
October 22, 2014, Second immigration wave lifts diversity to record high, Edward Greg Toppo and Paul Overberg, USA Today



Source USA TODAY analysis by Paul Overberg of data from Census Bureau, NHGIS at University of Minnesota and ProximityOne
 Frank Pappa, USA TODAY

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



8. Engagement, Effort: D. Simulations



March 13, 2015

9. Tension, Challenge, etc.: A. Controversial Issue Debates

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

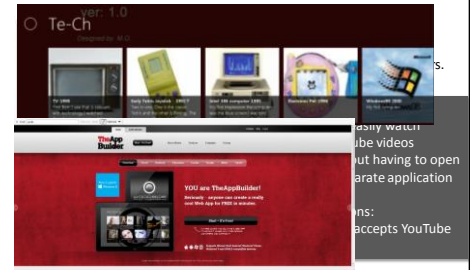


10. Yields Products, Goals: A. Uploading Mobile Books and Wikibooks (e.g., BookRix, <http://www.bookrix.com/>)



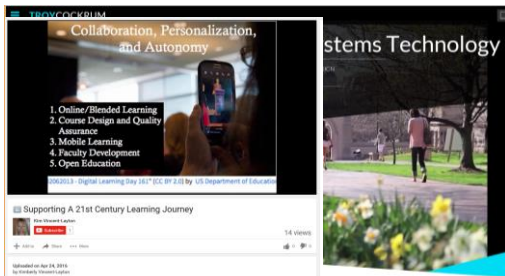
10. Yields Products, Goals: B. Student Created Mobile Apps

The App Builder: <http://www.theappbuilder.com/>
Mintian Guo: <http://myapp.is/r685final>



10. Yields Products, Goals: C. Student Created Videos

Piercarlo Abate: <http://www.youtube.com/watch?v=-TURzHO0aU>
QJ Li, Gangnam: <http://www.youtube.com/watch?v=7Qz20pZa1Rk&feature=youtu.be>
Miguel Lara (Web 2.0 FREEDOM): <http://www.youtube.com/watch?v=BcmCFW9Iw8>
Kendal Rasnake (Is IT Right For You?): <https://www.youtube.com/watch?v=M36UD1C1G>
Bianca My Microsoft Employee: <https://www.youtube.com/watch?v=Zc1zU...>



10. Yields Products, Goals: C. Student Created Videos

R678 Final Projects, April 2016
The Making of an Adventurer (video), Troy Cockrum
<https://www.youtube.com/watch?v=ew6e7Chd9I8>



10. Yields Products, Goals: D. Collection Tools

Design Article Database in Pinterest, Jenny Webeck
<https://www.pinterest.com/jennifertwebeck/emerging-learning-technologies/>

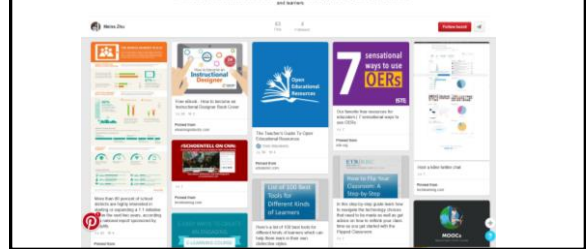
EDED 5372 Emerging Trends and Issues in Instructional Technology



10. Yields Products, Goals: D. Collection Tools

Design Article Database in Pinterest, Meina Zhu
<https://www.pinterest.com/zumeina0000/r-678-emerging-learning-technology/>

R 678 Emerging Learning Technology



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

What motivates?

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

Poll #7: Which do you prefer... (A) TEC-VARIETY or (B) R2D2?



What motivates?

1. **Tone/Climate:** Psychological Safety, Comfort, Sense of Belonging
2. **Encouragement:** Feedback, Responsiveness, Praise, Supports
3. **Curiosity:** Surprise, Intrinsic, Unknowns
4. **Variety:** Novelty, Fun, Fantasy
5. **Autonomy:** Choice, Control, Flexibility Opportunities
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8. **Engagement:** Effort, Involvement, Investment
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10. **Yielding Products:** Goal Driven, Purposeful Vision, Ownership

Overcoming the Resistance Movement



1. Incremental Change



2. Shared Success Stories and Best Practices



3. Training and Development



4. Just-in-Time Support



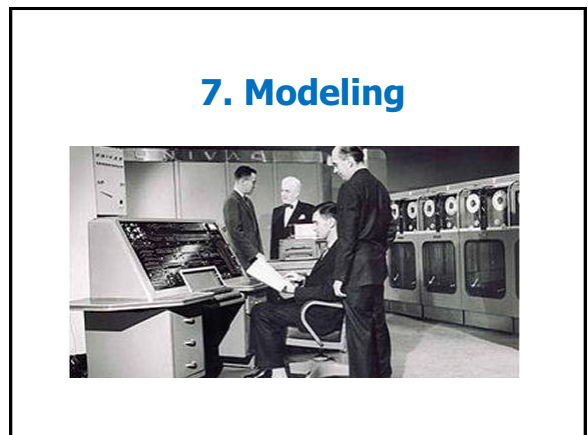
5. An Atmosphere of Sharing



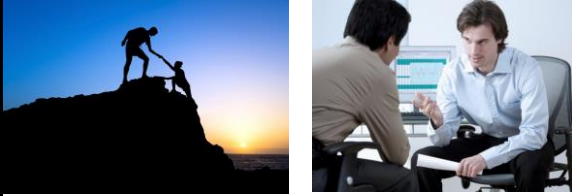
6. Awards and Incentives



7. Modeling



8. Mentoring and Coaching



9. External Supports



10. Frameworks and Models

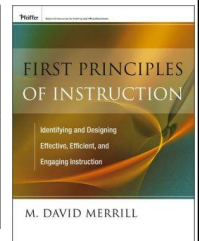
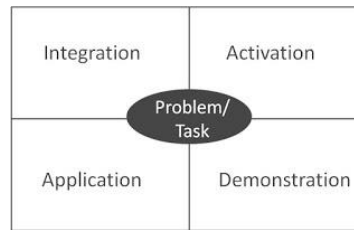


What motivates?

1. **Time/Climate:** Psychological Safety, Comfort, Sense of Belonging
2. **Encouragement:** Feedback, Responsiveness, Praise, Supports
3. **Quality:** Structure, Inquire, Unconcern
4. **Variety:** Novelty, Fun, Fantasy
5. **Autonomy:** Choice, Control, Flexibility, Opportunities
6. **Relevance:** Meaningful, Authentic, Interesting
7. **Interactivity:** Collaborative, Team-Based, Community
8. **Engagement:** Effort, Involvement, Investment
9. **Tension:** Challenge, Dissonance, Controversy
10. **Yielding Products:** Goal Driven, Purposeful Vision, Ownership

Merrill's First Principles of Instruction

<http://mdavidmerrill.com/Papers/FirstPrinciplesReigeluthCarr.pdf>



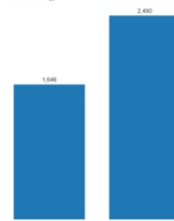
February 29, 2016 Instructional Design: Demand grows for a new breed of academic

The Chronicle of Higher Education, Dan Berrett
<http://chronicle.com/article/Instructional-Design/235425>

Instructional Design
Demand grows for a new breed of academic



Members of the Association for Educational Communications and Technology



Bonk's Last Principles of Teaching/Instruction

<http://traveledman.blogspot.com/2011/05/bonks-last-principles-of-instruction.html>



1. The Principle of Flexibility

<http://traveledman.blogspot.com/2011/05/bonks-last-principles-of-instruction.html>



2. The Principle of Convenience

<http://traveledman.blogspot.com/2011/05/bonks-last-principles-of-instruction.html>



3. The Principle of Collegiality

<http://traveledman.blogspot.com/2011/05/bonks-last-principles-of-instruction.html>



4. The Principle of Cheerfulness and Optimism

<http://traveledman.blogspot.com/2011/05/bonks-last-principles-of-instruction.html>



5. The Principle of High Expectations

<http://traveledman.blogspot.com/2011/05/bonks-last-principles-of-instruction.html>



6. The Principle of Choice and Options

<http://traveledman.blogspot.com/2011/05/bonks-last-principles-of-instruction.html>



7. The Principle of Empowerment and Autonomy

<http://traveledman.blogspot.com/2011/05/bonks-last-principles-of-instruction.html>



8. The Principle of Support and Feedback

<http://traveledman.blogspot.com/2011/05/bonks-last-principles-of-instruction.html>



9. The Principle of Spontaneity

<http://traveledman.blogspot.com/2011/05/bonks-last-principles-of-instruction.html>



10. The Principle of Organization

<http://traveledman.blogspot.com/2011/05/bonks-last-principles-of-instruction.html>



11. The Principle of Sharing

<http://traveledman.blogspot.com/2011/05/bonks-last-principles-of-instruction.html>



12. The Principle of Nontraditional Learning

<http://traveledman.blogspot.com/2011/05/bonks-last-principles-of-instruction.html>



13. The Principle of Passion and Inspiration

<http://traveledman.blogspot.com/2011/05/bonks-last-principles-of-instruction.html>

TED-ED clubs give students a platform for sharing ideas

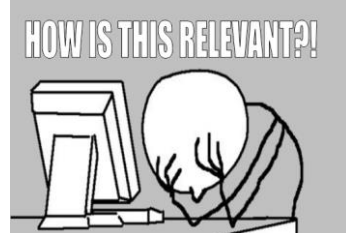


The clubs are fashioning the next generation of TED speakers one big idea at a time.



14. The Principle of Relevance and Meaningfulness

<http://traveledman.blogspot.com/2011/05/bonks-last-principles-of-instruction.html>



15. The Principle of Trial and Error (i.e., it is ok to fail)

<http://traveledman.blogspot.com/2011/05/bonks-last-principles-of-instruction.html>



16. The Principle of Expanded Resources

<http://traveledman.blogspot.com/2011/05/bonks-last-principles-of-instruction.html>



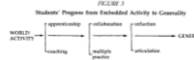
17. The Principle of Human Connectedness

<http://traveledman.blogspot.com/2011/05/bonks-last-principles-of-instruction.html>



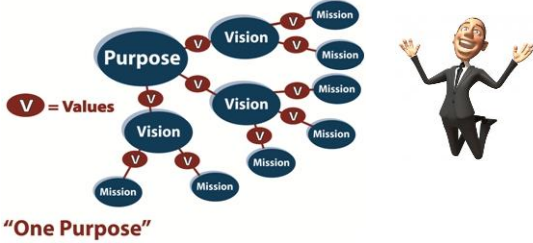
18. The Principle of Cognitive Apprenticeship

<http://traveledman.blogspot.com/2011/05/bonks-last-principles-of-instruction.html>



19. The Principle of Purpose and Vision

<http://traveledman.blogspot.com/2011/05/bonks-last-principles-of-instruction.html>



20. ??? (what is missing)

<http://traveledman.blogspot.com/2011/05/bonks-last-principles-of-instruction.html>



Debriefing of Bonk's Last Principles of Instruction and New Instructor Roles

<http://traveledman.blogspot.com/2011/05/bonks-last-principles-of-instruction.html>



We are entering a jumping off point...

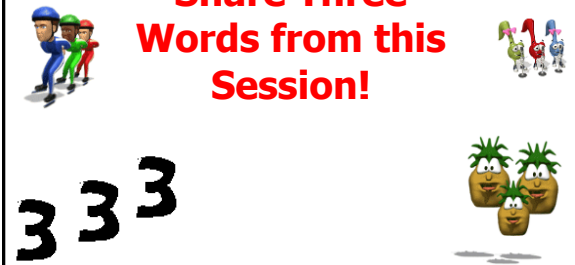
(South China Normal University, Friday June 12, 2015)



Activity #1: What are 3 things that you learned?



Activity #2: Share Three Words from this Session!



My three words...

"I am happy!"

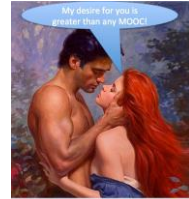
and...

My minions are happy!



Things are heating up!

<http://routledge-ny.com/books/details/9781138807419/>



MOOCs and Open Education Around the Word

By Bonk, Lee, Reeves, & Reynolds

Things are heating up!



And coming within reach!

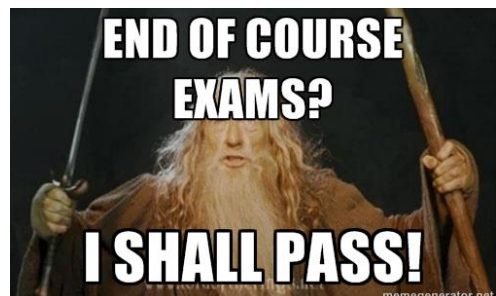


**Bonk Raffle...Book Raffle:
MOOCs and Open Education
Around the World**

<http://routledge-ny.com/books/details/9781138807419/>

MOOCs and Open Education Around the World
EDITED BY CURTIS J. BONK, MINN-H. LEE, THOMAS C. REEVES, & THOMAS H. REYNOLDS

**Poll #8:
What happens next...?**



Any Comments or Questions?
("I cannot do this alone.")



Remember:

Slides at: TrainingShare.com

Papers: PublicationShare.com

Book: <http://tec-variety.com/>

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