



Super Masterclass 0.0: Engage, Number One: This is the Next Generation

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Masterclass Part 1: Adding Some TEC-VARIETY for Online Motivation and Retention

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February 23, 2017 CoConqr Online Learning Report 2017

<https://info.goconqr.com/files/2017/02/GoConqr-2017-Online-Learning-Report.pdf>

GoConqr Online Learning Report 2017

Key Regional Variances




February 23, 2017 CoConqr Online Learning Report 2017

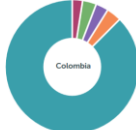
<https://info.goconqr.com/files/2017/02/GoConqr-2017-Online-Learning-Report.pdf>

Learning & Teaching Styles

Use of Learning Tools



United States



Colombia

- Sites
- Videos
- Games
- Handouts
- Webinars

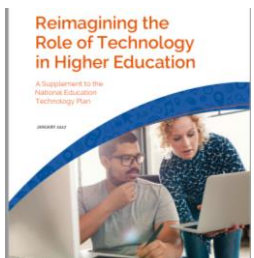
January 15, 2017 3 Reasons to Read the Higher Ed Supplement to National EdTech Plan (e.g., conversation starter, examples of innovation, cross-section of expertise) Joshua Kim, Inside Higher Ed

<https://www.insidehighered.com/blog/technology-and-learning/3-reasons-read-higher-ed-supplement-national-edtech-plan-0>



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

<https://tech.ed.gov/files/2017/01/Higher-Ed-NETP.pdf>




January 2017

Higher Education Supplement to the National Education Technology Plan

U.S. Department of Education, Office of Educational Technology
<https://tech.ed.gov/files/2017/01/Higher-Ed-NETP.pdf>

'New Normal' Students in Higher Education

74% of all undergraduate students have at least one nontraditional characteristic



66% transfer between institutions prior to completion	62% work either full or part time	43% attend part time
28% have at least one dependent	35% are enrolled in two-year colleges	63% are first-gen students

Source: National Center for Education Statistics (NCES)

January 2017


Higher Education Supplement to the National Education Technology Plan

U.S. Department of Education, Office of Educational Technology
<https://tech.ed.gov/files/2017/01/Higher-Ed-NETP.pdf>

Design Principles for a Student-Centered Higher Education Ecosystem

1. Personalize learning experiences to meet individual student needs and interests.
2. Provide flexible learning paths and schedules that allow students to learn at their own pace and in their own time.
3. Offer multiple entry and exit points into and out of higher education.
4. Support students' financial and personal needs, including providing access to financial aid and other resources.
5. Foster a culture of innovation and entrepreneurship, encouraging students to explore new ideas and solutions.
6. Promote lifelong learning and continuous education, providing opportunities for students to update their skills and knowledge throughout their lives.
7. Enhance the quality of the student experience, focusing on student success and well-being.
8. Leverage technology to enhance learning and teaching, providing students with access to digital resources and tools.
9. Support the development of a diverse and inclusive workforce, preparing students for the jobs of the future.
10. Foster partnerships between higher education and industry, ensuring that students receive the skills and knowledge they need to succeed in the workforce.

Student-Centered Higher Ed Ecosystem



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



Longing to disconnect from work while you're not on the job?

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/>

Overworked? Join the club. Here's h



IS YOUR WORKLOAD EXCESSIVE?

Percentage of employees, comparing 2016 to 2011, who don't think so:



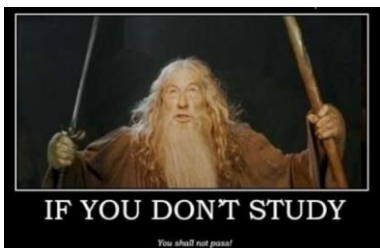
Country	2011 (%)	2016 (%)
U.S.	38%	36%
FRANCE	36%	31%
U.K.	31%	24%
CHINA	24%	24%

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!

September 11, 2016

Welcome, Freshmen. Look at Me When I Talk to You

Jonathan Zimmerman, *The Chronicle of Higher Education*
<http://www.gite.education/events/2017conference/>



No, Banning Laptops Is Not the Answer

And it's just as pointless to condemn any ban on electronic devices in the classroom.

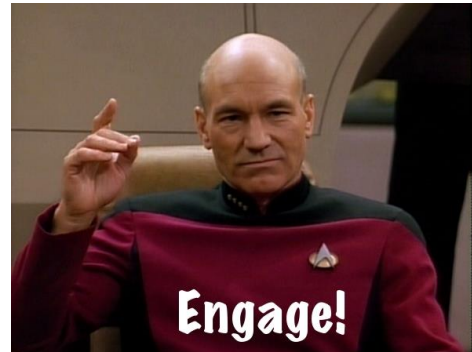
By Jason M. Lang | SEPTEMBER 11, 2016



Too many of our students are distracted by devices. We all know this. In recent months the problem has been repeatedly identified as a major barrier to learning. The solution is to ban laptops and all electronic devices from the classroom. Laptops have been banned in many classrooms.

Many faculty members often condemn us for our cell phones, tablets, and other hand-held devices only for very limited purposes such as grading. If at all, I cannot be a constant face because as

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)

See: Deci, E. L., & Ryan, R. M. (1985). *Intrinsic motivation and self-determination in human behavior*. NY: Plenum Press.



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



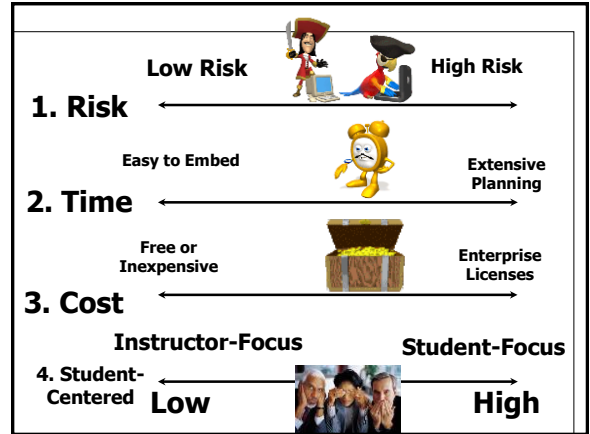
Framework #1: TEC-VARIETY for Online Motivation and Retention

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



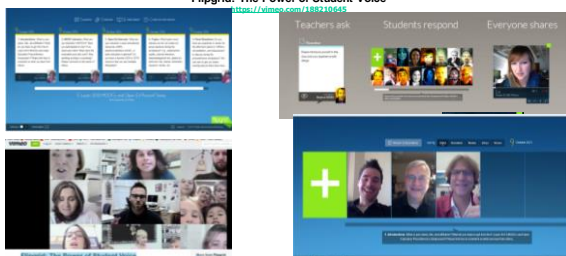
**在线学习动机与激励:
TEC-VARIETY 模型**
 ——激励和留住在线学习者的 100 个活动
 作者: Curtis J Bonk & Elaine Khoo IU



Examples of TEC-VARIETY




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
<https://vimeo.com/188110545>



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=Wzbc3QiiA>
 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:
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>

May 29, 2014

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

January 8, 2017
3. Curiosity, Surprise, Intrigue, Unknowns:
A. Summary and Comparison Maps
#GeoawesomeMapOfTheDay
<https://twitter.com/geoawesomeness>
<https://www.instagram.com/p/BNwgv3fDQg3/>
<https://twitter.com/hashtag/GeoawesomeMapOfTheDay?src=hash>

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)
http://www.cnn.com/2014/11/06/living/oldest-photograph-human-daguerr/index.html?hpt=hp_t4_kong

August 24, 2016
3. Curiosity, Intrigue, Unknowns:
C. Multimedia News
 Changing opinions on climate change, from a CNN meteorologist, Chad Meyers, CNN
<http://www.cnn.com/2016/08/24/opinions/cnn-meyers-climate-change-worrier/index.html>

January 17, 2016
3. Curiosity, Surprise, Intrigue, Unknowns:
D. Something in the News
http://www.cnn.com/2014/12/17/health/healthy-aging/index.html?hpt=hp_t2
http://espn.go.com/sports/andurance/story/_/id/8979487/fauja-singh-101-caps-career-10k-hong-kong
<http://www.sbs.com.au/yourlanguage/hin6/en/article/2016/01/17/104-year-old-fauja-singh-runs-mumbai-marathon>

September 16, 2016

3. Curiosity, Intrigue, Unknowns:
E. Live Science

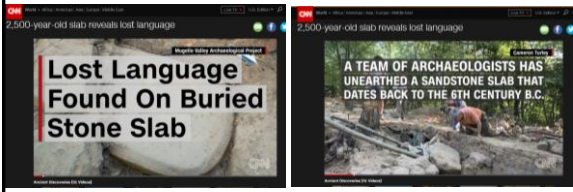
Best of the E/V Nautilus 2016 Expedition | Nautilus Live
(video: 32:28)
<http://www.nautiluslive.org/>
<https://www.youtube.com/watch?v=1-412PKHmU>



April 1, 2016

3. Curiosity, Intrigue, Unknowns:
F. Groundbreaking Science

(e.g., 2,500-year-old slab reveals lost language, CNN)
(A team of scientists have uncovered a 2,500-year-old slab that may reveal details about the ancient Etruscan civilization; found in Temple Foundation north of Florence, Italy.)
<http://www.cnn.com/videos/world/2016/04/01/italy-etruscan-slab-find-orig-vstan.cnn>



November 19, 2015

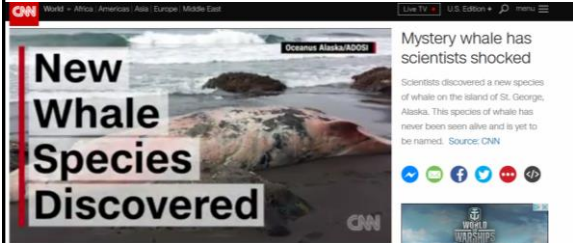
3. Curiosity, Intrigue, Unknowns:
G. Immediate Science



August 2, 2016

3. Curiosity, Intrigue, Unknowns:
H. Immediate Science

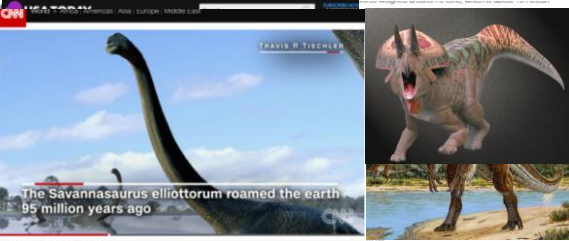
Mystery whale has scientists shocked,
New Whale Species Discovered, CNN
<http://www.cnn.com/videos/world/2016/08/02/new-whale-species-discovered-orig-vstan.cnn>



January 5, 2017

3. Curiosity, Intrigue, Unknowns:
I. Immediate Science

Move over T. rex, new dinosaur unveiled, Amanda Jackson, CNN
<http://www.cnn.com/2016/01/14/living/titanosau-new-dinosaur-on-display-new-york-12p2/>



January 30, 2017


3. Curiosity, Intrigue, Unknowns:
J. Immediate Science

Ancient human ancestor was a big mouth
Doyle Rice, USA Today
<http://www.usatoday.com/story/tech/sciencefair/2017/01/30/ancient-human-ancestor-big-mouth/97263458/>




February 16, 2017
3. Curiosity, Intrigue, Unknowns:
K. 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_58a62a7e64603717216247779a48p02yvspoosor6
http://www.huffingtonpost.com/entry/woolly-mammoth-elephant_us_58a62a7e64603717216247779a48p02yvspoosor6

Woolly Mammoth Could Be 'De-Extinct' In 2 Years, Scientist Says
 The plan is to create a woolly mammoth-elephant hybrid.



February 19, 2017
3. Curiosity, Intrigue, Unknowns:
L. We thought New Zealand was an island nation. Scientists say it's the tip of a 'hidden continent.'
 Avi Seik, The Washington Post
https://www.washingtonpost.com/news/energy-environment/wp/2017/02/19/we-thought-new-zealand-was-an-island-scientists-say-its-the-tip-of-a-hidden-continent/?hpid=hp_hp-top-table-main-hidden-continent%3Ahomepage%2Fstory&hpid=hp_hp-top-table-main-hidden-continent%3Ahomepage%2Fstory&hpid=hp_hp-top-table-main-hidden-continent%3Ahomepage%2Fstory&hpid=hp_hp-top-table-main-hidden-continent%3Ahomepage%2Fstory
<http://www.denverpost.com/2017/02/19/new-zealand-zealandia/>

We thought New Zealand was an island nation. Scientists say it's the tip of a 'hidden continent.'



February 22, 2017
3. Curiosity, Intrigue, Unknowns:
M. Astronomers discover 7 Earth-sized planets orbiting nearby star
 Ashley Strickland, CNN (1:18 video)
<http://www.cnn.com/2017/02/22/world/new-exoplanets-discovery-nasa/index.html>

Astronomers discover 7 Earth-sized planets orbiting nearby star



February 16, 2017
3. Curiosity, Intrigue, Unknowns:
N. 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/96007144/>


NASA wants you — to find a missing planet



NASA has helped fund a website called Backyard Worlds, where citizen scientists can search for new planets. Video provided by Newsy Newslook

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, Screnr, etc.)
- D. Voice/Audio feedback (Vocaroo)
- E. Online practice tests
- 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/>



4. Variety, Novelty, Fun, Fantasy:
C. Voice/Audio Feedback
Vocaroo: <http://vocaroo.com/>
<http://vocaroo.com/delete/s0x8moQAYAiU/a37bbc9408bb8c95>
 (Recorded by Curt Bonk for the Open University of China)



4. Variety, Novelty, Fun, Fantasy:
D. 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

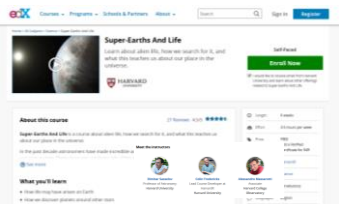
5. Autonomy, Choice:
A. Enroll in a MOOC and Reflect
 (e.g., see Class Central)



February 2, 2017
5. Autonomy, Choice:
B. Explore/Browse a MOOC
Super-Earths And Life

Learn about alien life, how we search for it, and what this teaches us about our place in the universe.

<https://www.edx.org/course/super-earths-life-harvardx-spu30x-1>



February 17, 2017
5. Autonomy, Choice:
C. Explore Online Databases
 (e.g., OER World Map
<https://oerworldmap.org/>)



December 8, 2015
5. Autonomy, Choice:
D. Design Multimedia Glossaries
 P540 Final Assignment: Nate Wynne, Supersized Personal Course Glossary
<http://natewynne1992.wikis.com/p540courseglossary>
 Ozgur Ozdemir, December 2012
<http://r685glossary.shutterstock.com/>
 Umida Khikmatillaeva, Dec. 2011, P540
<http://learningplanet.shutterstock.com/>

5. Autonomy, Choice:
E. 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>

March 13, 2015
5. Autonomy, Choice:
F. 20% Time in Education
 Kendal Rasnake & Troy Cockrum, IU
https://www.dropbox.com/s/tcsr5oae2icgwuk/20_Time_in_Education-Cockrum_and_Rasnake.mov?n=57312573

Poll #5:
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. Weekly Synchronous Guest Chats
 (e.g., Emily Hixon, January 20, 2015)
<https://connect.iu.edu/p259wpiabg9/>

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

6. Relevance, Meaningfulness: C. Case-Based Learning: Instructor Cases (e.g., Mark Braun, IU)

Stomach, endoscopic examination and biopsy.
Poorly differentiated tubular adenocarcinoma

I'd like to take the quiz now.

Final conclusion:
Advanced gastric carcinoma with multiple lung metastasis with lymphangitic growth

September 20, 2016 6. Relevance, Meaningfulness: D. Editing Wikipedia Pages College students take to Wikipedia to rewrite the words of Internet science, Rosanna Xia, LA Times <http://www.latimes.com/local/lanow/la-me-wikipedia-science-classes-ada-snp-2016.html>

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)

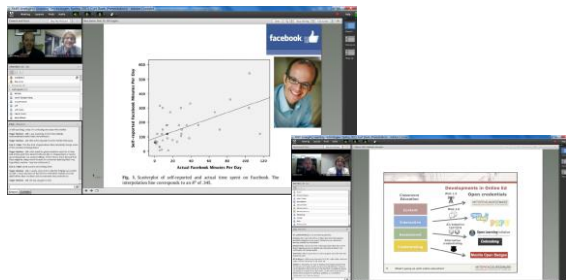
January 20, 2017 6. Relevance, Meaningfulness: E. The Changing Earth <http://thechangingearth.com/>

7. Interactive, Collaborative: A. Negotiate Meanings Online (e.g., PiratePad: <http://meetingwords.com/>) <http://blogs.edon.edu/technology/6-collaborative-writing-applications-for-group-projects-or-papers/> 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)



Poll #6: Which of these ideas might you use?

- A. Student designed multimedia glossaries
- B. Edit Wikipedia pages
- C. 20 percent time learning
- D. Guest chats with former students
- E. Negotiate meanings online (e.g., PiratePad)
- F. Enroll in a MOOC
- G. Discussion in Zoom
- H. Guest speaker quotes



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

<http://www.usatoday.com/story/news/nation/2014/10/22/diversity-race-ethnicity-change-100-years/14211131>

Rising diversity, state by state

The USA TODAY Diversity Index shows on a scale from 0-100 the chance that two random people are different by race and ethnicity.



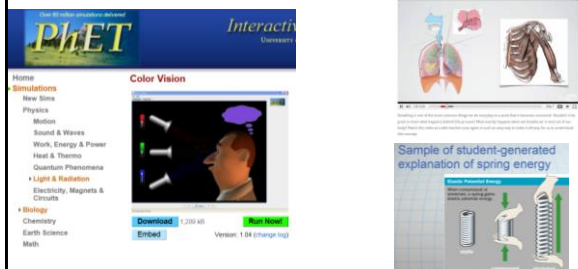
Source USA TODAY analysis by Paul Overberg of data from Census Bureau, NHGIS at University of Minnesota and ProximityOne Frank Pompa, USA TODAY

8. Engagement, Involvement: B. Interactive Timelines (Dipity, xtimeline, Simile, etc.)

<http://www.usatoday.com/story/news/nation/2014/10/22/diversity-race-ethnicity-change-100-years/14211131>
<http://usatoday30.usatoday.com/tech/news/story/2011-09-22/steve-jobs-dies/50672498/1>
<http://www.cnet.com/news/steve-jobs-a-timeline/>

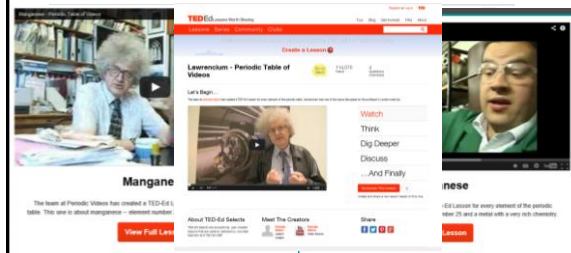


8. Engagement, Involvement: C. Interactive Labs and Simulations <http://phet.colorado.edu/en/simulation/energy-skate-park>



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

http://ed.ted.com/periodic-table-video?source=TED-Ed+Subscribers&utm_campaign=921185&id=2012_09_219_19_2013&utm_medium=email&utm_term=.0_1a5cccd48-92b20546d1-69762291



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 Members voted to Create an Academic Development & Content Review Board; R511, Rick and Rick
https://www.youtube.com/watch?v=Bo2_ACT_A08&list=youtu.be



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

<https://newseumed.org/>



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



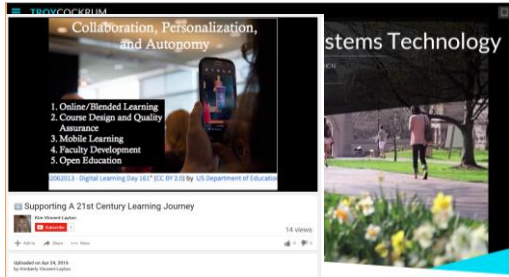
10. Yields Products, Goals:
B. Database Collection Tools
Design Article Database in Pinterest,
 Meina Zhu and Jennifer Weebek

<https://www.pinterest.com/zhuaina000/-/e78-emerging-learning-technology/>
<https://www.pinterest.com/jennifertweebek/emerging-learning-technologies/>



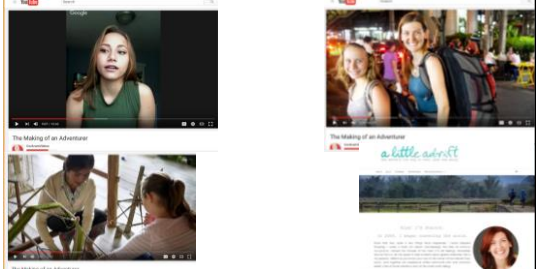
10. Yields Products, Goals:
C. Student Created Recap Videos

Piercarlo Abates: http://www.youtube.com/watch?v=-_URzH00aU
 Qi Li, Gangnam: <http://www.youtube.com/watch?v=7Q429qzZaU8&feature=youtu.be>
 Miguel Lara (Web 2.0 FREEDOM!): <http://www.youtube.com/watch?v=8omCFW0r18>
 Kendal Rasnake (Is IT Right For You?): <https://www.youtube.com/watch?v=M33GUD1C1Gw>
Kendal Rasnake (Is IT Right For You?): https://www.youtube.com/watch?v=K6C3L_Y1D3M&list=youtu.be



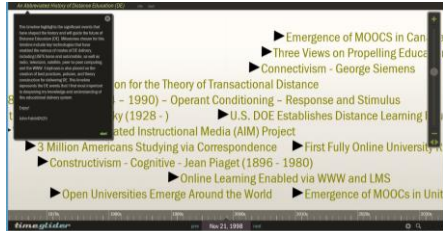
10. Yields Products, Goals:
D. Student Created Documentaries

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



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

R678 John Falchi, Timeglider, An Abbreviated History of Distance Education
http://timeglider.com/?5084548902a480087min_zoom=1&max_zoom=100



December 13, 2016
10. Yields Products, Goals:
F. Student Infographics, Charts, and Maps
(e.g., Piktochart)

Brittany Campbell, Brooke Welti, Kevin McCracken, R511, Fall 2016
<https://magic.piktochart.com/output/18501778-r511?presentation=true>



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 created websites
- F. Student infographics
- G. Interactive timeline tools
- H. Videos with test questions



Commitments:
Stop and Share:
 Which principle(s) of TEC-VARIETY will you use?

Tone/Climate
Encouragement, Feedback
Curiosity

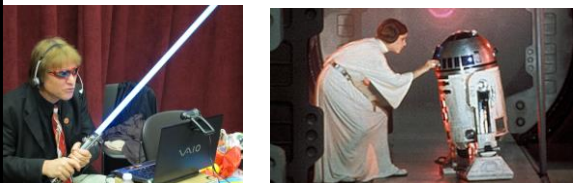
Variety
Autonomy
Relevance
Interactive
Engagement
Tension
Yields Products

What motivates?

1. **Tone/Climate:** Psychological Safety, Comfort, Sense of Belonging
2. **Encouragement:** Feedback, Responsiveness, Praise, Supports
3. **Curiosity:** Surprise, Intrigue, 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:** Challenges, Dissonance, Controversy
10. **Yielding Products:** Goal Driven, Purposeful Vision, Ownership

Masterclass Part 2:
Where are You R2D2?: Addressing Diverse Online Learner Needs with the Read, Reflect, Display, and Do Model

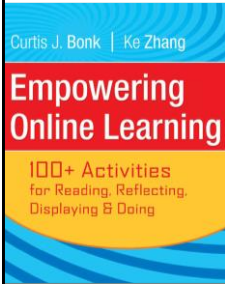
Curt Bonk, Professor, Indiana University
 cjbonk@indiana.edu
<http://mypage.iu.edu/~cjbonk>



Addressing Learning Styles with R2D2



Model #2: The R2D2 Model: Read, Reflect, Display, Do...



The R2D2 Method

1. Read (Auditory and Verbal Learners)
2. Reflect (Reflective Learners)
3. Display (Visual Learners)
4. Do (Tactile, Kinesthetic, Exploratory Learners)



1. Auditory or Verbal Learners

- Auditory and verbal learners prefer words, spoken or written explanations.



January 20, 2016

Read 1a. Podcasts

IU Bloomington podcast series to launch Jan. 24, Steve Hinnfeld, IU Newsroom

http://inside.iuindiana.edu/headlines/2016-01-20-new-campus-podcast.html?utm_source=2016-01-20&utm_medium=newsletter&utm_content=Something-in-the-air&utm_campaign=2016-inside-sub-distribution

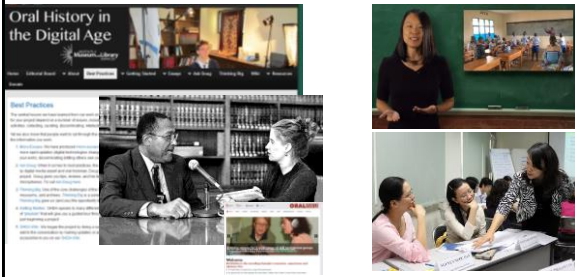


IU's Media School dean James Shanahan, at left, will host a new campus podcast. Senior Luqman Ruth will read the news for the inaugural podcast. | PHOTO BY JENNIFER PIUREK, OFFICE OF THE PROVOST

Read 1b. Collect Oral Histories

e.g., Joan Kang Shin, George Mason University, has her students write "This I believe" Statements. (EFL teachers around the world interview elders in their community for a rich database of oral histories and documentaries for social change)

Oral History Society: <http://www.ohs.org.uk/>



Read 1c.

Exploring Various Resources to Track the Life of a Prominent People

(e.g., Vannevar Bush in Atlantic Monthly, Wikipedia, Time, etc.) http://en.wikipedia.org/wiki/Vannevar_Bush

JULY 1945

As We May Think

VANNEVAR BUSH | JUL 1 1945, 12:00 PM ET



Read 1d.
Reading Life Histories
(OER, bio.com; Mozart:
<http://www.mozartproject.org/>)
<http://www.biography.com/people/bob-marley-9399524>

May 28, 2015
Read 1e. Open Access Scientific Reports/Studies
New species from Ethiopia further expands Middle Pliocene hominin diversity, Nature
<http://www.cnn.com/2015/05/28/africa/ethiopia-fossil-hominin-ancestor/index.html>
<http://www.nature.com/nature/journal/v521/n7552/full/nature14448.html>

May 28, 2015
Read 1e. Immediate Science
Ancient jawbones put new species on the human family tree, researchers say, Laura Smith-Spark, CNN
<http://www.cnn.com/2015/05/28/africa/ethiopia-fossil-hominin-ancestor/index.html>

2. Reflective and Observational Learners

- Reflective and observational learners prefer to reflect, observe, view, and watch learning; they make careful judgments and view things from different perspectives

Reflect 2a. Big Issue Reflections
(Big Questions Online (BQO)), Feb 3, 2015
(e.g., Is curiosity essential for human flourishing?)
<https://www.bigquestionsonline.com/content/do-we-have-souls>

October 6, 2016
Reflect 2b. What-if Reflections
What if Aaron Burr had missed Alexander Hamilton?, Thomas Fleming, CNN
<http://www.cnn.com/2016/10/06/politics/alexander-hamilton-aaron-burr-duel-missed/index.html>

What if Aaron Burr had missed Alexander Hamilton?

September 21, 2016
Reflect 2c. Discussion Starter News Stories

(e.g., **Aboriginal Australians are Earth's oldest civilization: DNA study**, **Emiko Jozuka, CNN**)

<http://edition.cnn.com/2016/09/22/asia/indigenous-australians-earths-oldest-civilization/index.html>



Elder Thomas Wales, of the Thanakwith Pine River People, is one of the co-authors of the study.

January 12, 2017
Reflect 2d. Sharing Future Forecasts and Projections

Meet the giants of tomorrow: The tallest buildings rising in 2017, **Ian Spula, CNN**

<http://www.cnn.com/2017/01/11/architecture/tallest-buildings-top-out-2017/>

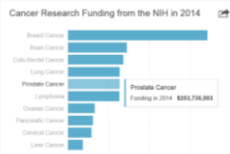
Meet the giants of tomorrow: The tallest buildings rising in 2017



April 13, 2016
Reflect 2e. Interpreting Interactive Graphs

Tech billionaire announces \$250 million in cancer immunotherapy funding, **Jayne O'Donnell, USA Today**

<http://www.usatoday.com/story/news/2016/04/13/billionaire-announces-250-million-cancer-immunotherapy-funding/82821158/>



Dr. Jedd D. Wolchok, Chief, Melanoma and Immunotherapeutics Service at Memorial Sloan Kettering Cancer Center in Photo by John OBoyle, Freelance ORG XMIT: JO 134700 seanparker 4/7/2016 [Via MerlinFTP Drop]

3. Visual Learners

- Visual learners prefer diagrams, flowcharts, timelines, pictures, films, and demonstrations.

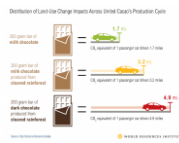


Display 3a. Interpreting Infographics
August 5, 2015

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/>

Land-Use Change Emissions in Miles Driven



Display 3b. Virtualize Words Used
 (e.g., Wordle, Taggedo, Tagul, WordSift, Word It Out)



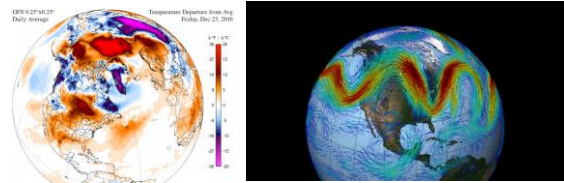
Display 3c. Map Animations
Yes, Mr. President, We Remade Our Atlas to Reflect Shrinking Ice

Christine Dell'Amore, National Geographic, August 3, 2015
<http://www.nationalgeographic.com/animals/ice/atlases/ice-atlas/>
<https://www.nationalgeographic.com/animals/ice/atlas/ice-atlas/>



December 23, 2016
Display 3d. Global Data Visualizations
 The Arctic is showing stunning winter warmth, and these scientists think they know why, Charles Mooney, Washington Post

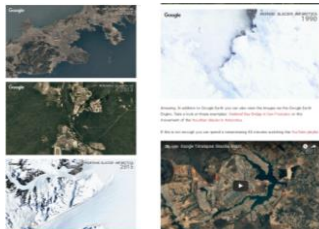
<https://www.washingtonpost.com/archive/local/2016/12/23/why-is-the-arctic-warm-this-winter-heres-why-2016-12-23/>
<http://www.washingtonpost.com/archive/local/2016/12/23/why-is-the-arctic-warm-this-winter-heres-why-2016-12-23/>



Visualization of a very wavy northern hemisphere jet stream. Credit: NASA

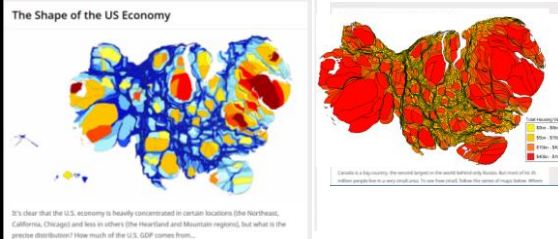
December 2, 2016
Display 3e. Global Data Visualizations
 With Google Earth Timelapse you can now view 32 years of Landsat satellite images, Aleks Buczkowski

<http://geosavesomeness.com/google-earth-timelapse-can-now-view-32-years-landsat-satellite-images/>



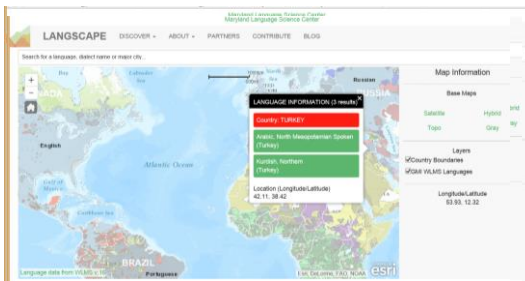
November 19, 2016
Display 3f. Cartograms, Maps, and Other Visualizations
 Metrocosm: Cartograms Archive
 The Housing Value of Every County in the U.S.

<http://metrocosm.com/category/cartograms/>



March 24, 2015
Display 3g. Maps of Languages
 Langscape, Language at Maryland

<https://languagescience.umd.edu/beyond-umd/langscape>
<http://theweek.com/articles/25457582-look-in-interactive-map-lets-explore-worlds-languages>
<http://langscape.umd.edu/map.php>



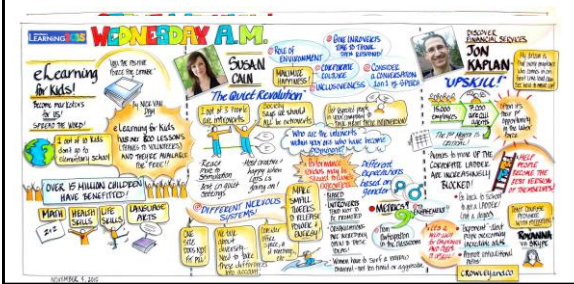
Display 3h. (April 28, 2015)
Concept Mapping and Timeline Tools
 (Bubbl.us, Cmap, Glify, Spicynodes, or Mindomo)

<http://www.spicynodes.org/index.html>



December 17, 2015
Display 3i. Graphical Recordings

Elliott Masie's Learning 2015, Nov 1-4, 2015
<http://learningtalks.com/learning-2015-videos/sabrina-kay-the-learner/>
<http://www.imagethink.net/>



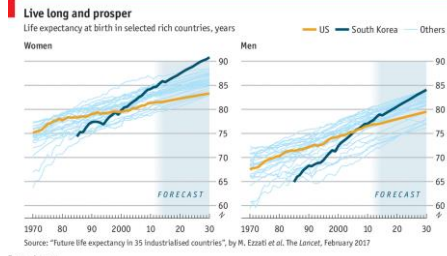
February 21, 2017
Display 3j. "My classroom is like a,"
Khendum Gyabak

<http://www.ck12.com/index.php?c=3&mhk=2&mhk=3&mhk=4&mhk=5&mhk=6&mhk=7&mhk=8&mhk=9&mhk=10&mhk=11&mhk=12&mhk=13&mhk=14&mhk=15&mhk=16&mhk=17&mhk=18&mhk=19&mhk=20&mhk=21&mhk=22&mhk=23&mhk=24&mhk=25&mhk=26&mhk=27&mhk=28&mhk=29&mhk=30&mhk=31&mhk=32&mhk=33&mhk=34&mhk=35&mhk=36&mhk=37&mhk=38&mhk=39&mhk=40&mhk=41&mhk=42&mhk=43&mhk=44&mhk=45&mhk=46&mhk=47&mhk=48&mhk=49&mhk=50&mhk=51&mhk=52&mhk=53&mhk=54&mhk=55&mhk=56&mhk=57&mhk=58&mhk=59&mhk=60&mhk=61&mhk=62&mhk=63&mhk=64&mhk=65&mhk=66&mhk=67&mhk=68&mhk=69&mhk=70&mhk=71&mhk=72&mhk=73&mhk=74&mhk=75&mhk=76&mhk=77&mhk=78&mhk=79&mhk=80&mhk=81&mhk=82&mhk=83&mhk=84&mhk=85&mhk=86&mhk=87&mhk=88&mhk=89&mhk=90&mhk=91&mhk=92&mhk=93&mhk=94&mhk=95&mhk=96&mhk=97&mhk=98&mhk=99&mhk=100>



February 23, 2017
Display 3k. Global Comparison Graphs
 (Longevity in rich countries, The Economist; A new study suggests South Koreans will have the world's highest life expectancy by 2030, The Economist)

<http://www.economist.com/news/asia/20170223-south-korea-will-have-the-worlds-highest-life-expectancy-by-2030>



March 2, 2016
Display 3L. Weekly 1 minute Video Updates
 (e.g., Pinkcasts from Daniel Pink)

<http://www.danpink.com/pinkcast/>



October 31, 2014
Display 3m. Live Science
 Penguin Science (Penguin Cam) Jean Pennycok

<http://www.penguinscience.com/>
<http://www.thistle.org/pcam2/images.shtml>



December 15, 2016
Display 3n. Interactive Media Timelines
 The Digital Era: How 50 years of the information age transformed college forever, Ben Myers & Erica Lusk, The Chronicle of Higher Education

<http://www.chronicle.com/interactives/50-years-of-technology>

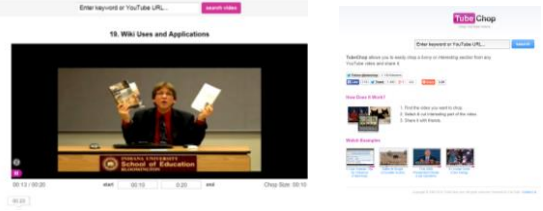


Display 3o.
Short Educational Videos:
 CNN, BBC, TED, TED-Ed, ForATV
 BBC One-Minute World News (August 31, 2015)
<http://www.bbc.com/news/business-34105708>



Display 3p. Short Video Anchors
 (e.g., TubeChop of V-PORTAL: Video Primers in an Online Repository of e-Teaching and Learning)

Curt Bonk: <http://www.tubechop.com/watch/378752>



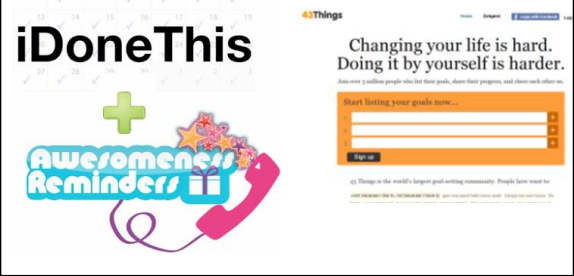
4. Tactile/Kinesthetic Learners

- Tactile/kinesthetic senses can be engaged in the learning process are role play, dramatization, cooperative games, simulations, creative movement and dance, multi-sensory activities, manipulatives and hands-on projects.



Do 4a. Goal Setting Tools

(e.g., I Done This, Milestone Planner, and 43 Things)



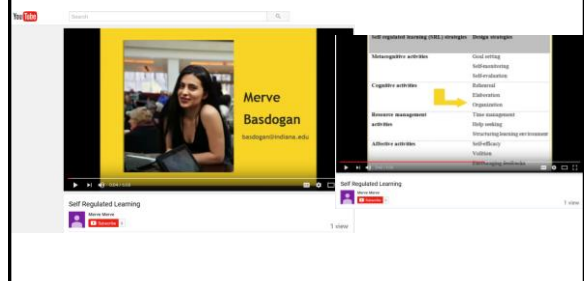
October 26, 2016
Do 4b. Student Created Marketing and Explanatory Videos

R511, Kai Westerfield, Jennifer Blankenship, And Colbi Lehman, Online Degree Programs, (11:54) Go Animate



October 26, 2016
Do 4c. Student Exploration Video

R511, Merge Basdogan, Self-Regulated Learning (6:08)
<https://www.youtube.com/watch?v=g1FpogGm1z8&feature=youtu.be#t=3.346833>



October 26, 2016
Do 4d. Student Research Recap Video
R511, Rob Elliot, Erin Milanese, and Patrick Walsh
Traditional Textbook (8:11)
<https://drive.google.com/file/d/0B25ACR5b0d8NE9oa5L6r1uH9W/view>

Do 4e. Student Website Development
R511 Final Projects, April 2016
IT and HPT Comparison (Website), Doug Hsu
<http://douglasindira.wix.com/r511finalproject>
"IST Construction, Co."
Rob Elliot, Patrick Walsh, Erin Milanese, R511, December 2016
<http://reliott.net/istconstruction/index.php>
"Cousins but Not Twins: Instructional Technology and Human Performance Technology,"
Merve Basoglan and Brett Gary, R511, December 2016
<http://educbasoglan.wixsite.com/511final>

Poll #8: 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: Questions, Inquiries, Interactions
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 #9: How many ideas did you get from this talk?

1. 0 if I am lucky.
2. Just 1.
3. 2, yes, 2...just 2!
4. Do I hear 3? 3!!!!
5. 4-5.
6. 5-10.
7. More than 10.

Poll #10: 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