

## Masterclass Part 1: Best Practices for Online and Blended learning: Introducing the TEC-VARIETY Model

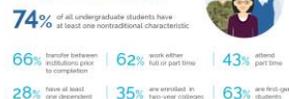
Curtis J. Bonk, Professor, Indiana University  
 cjbonk@indiana.edu  
<http://mypage.iu.edu/~cjbonk/>



## 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



### Reimagining the Role of Technology in Higher Education

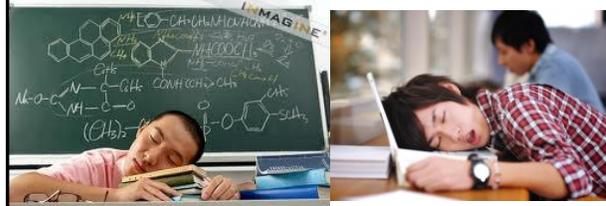
A Supplement to the National Education Technology Plan



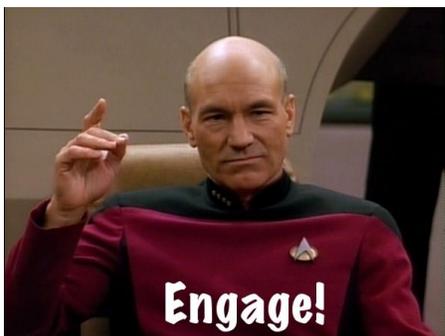
## Poll #1: How many of you cannot keep up with educational technology reports and are frustrated?



## 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)

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...

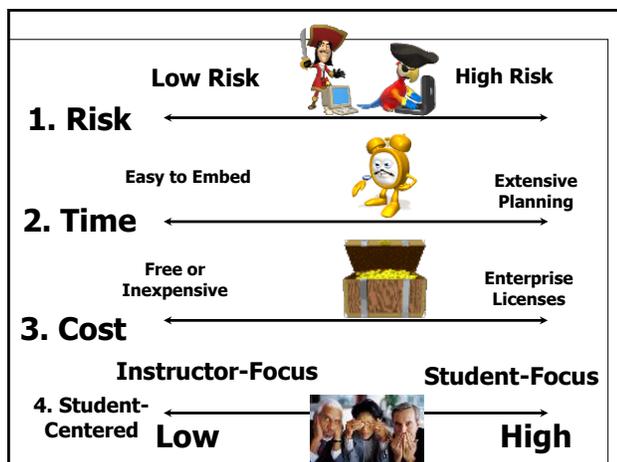
<http://tec-variety.com/>  
<http://tec-variety.com/TEC-VARIETY-Chinese.pdf>



## 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

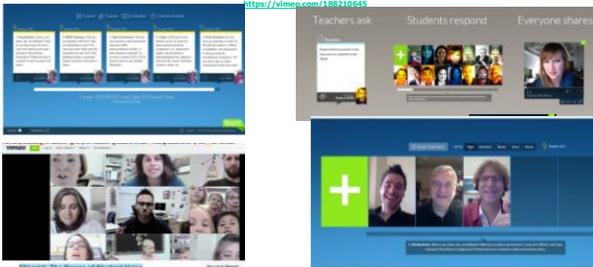
作者：Curtis J Bonk & Elaine Khoo IU



## 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/148710025>



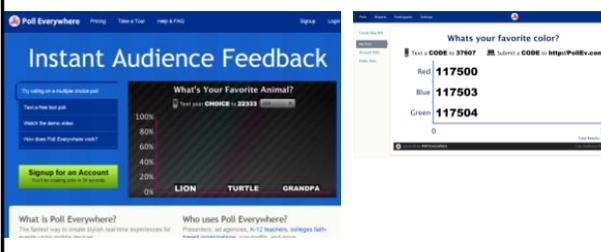
**1. Tone/Climate:**  
**B. Instructor Course Introductions**  
 (Theatre 10 Intro Video, October 7, 2014, Elizabeth Dale, West Valley College)  
<https://www.youtube.com/watch?v=Wzbzc3QiiA>  
 Chuck Severance, U Michigan/Coursera) in Barcelona  
<http://www.youtube.com/watch?v=JzNHvmSv8TI>  
 Chuck Severance, University of Michigan  
<https://www.coursera.org/course/pythonlearn>



**2. Encouragement, Feedback:**  
**A. Demonstrations and Tutorials**  
 (e.g., Jing, Screnr, GoView, Screencast-o-matic, etc.)  
<http://inside.iub.edu/features/videos/2014-05-29-inub-vid-cib.shtml>



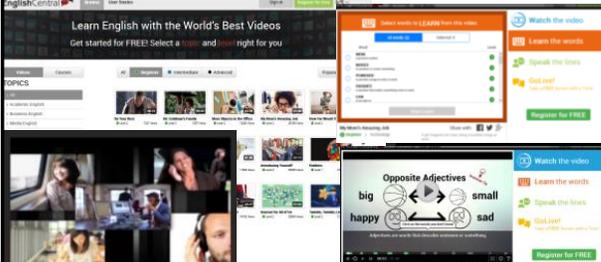
**2. Encouragement, Feedback:**  
**B. Blog and Website Polling**  
 (e.g., Poll Everywhere, BlogPolls, BlogPoll, MicroPoll)  
<http://www.polleverywhere.com/>



**2. Encouragement, Feedback:**  
**C. Voice/Audio Feedback**  
 Vocaroo: <http://vocaroo.com/>  
<http://vocaroo.com/delete/s0x8moQAYAIu/a37bbc9408bb8c95>  
 (Recorded by Curt Bonk for the Open University of China)



**July 21, 2017**  
**2. Encouragement, Feedback:**  
**D. English Central**  
<https://www.englishcentral.com/videos/?i/index>  
[https://www.englishcentral.com/videos](https://www.englishcentral.com/videos/?i/index)



**March 27, 2017**  
**3. Curiosity, Surprise, Intrigue, Unknowns:**  
**A. Summary and Comparison Maps**  
**#GeoawesomeMapOfTheDay**  
<https://twitter.com/geoawesomeness>  
<https://www.instagram.com/p/BNwqvJDAq3/>  
<https://twitter.com/hashtag/GeoawesomeMapOfTheDay?src=hash>

The States Where It's Legal To Smoke Marijuana  
 Legalized for recreational & medical use (dark green)  
 Medical use only (light green)

Legalized for recreational & medical use:  
 Washington, Washington D.C., Oregon, Alaska, Colorado, California, Massachusetts, Nevada, Maine

what would remain of European continent if all active countries if all active separate parties were

statista

**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-daguerre/index.html?hpt=hp\_14\_kong

**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**  
<http://www.cnn.com/2017/04/17/us/boston-marathon-kathrine-switzer-trnd/index.html>

**July 16, 2017**  
<http://theachievement.com/articles/2721963-julia-hawkins-sets-100-meter-dash-record-for-women-100-years-or-older>  
<http://www.usatoday.com/story/news/2017/07/17/meet-corythoraptor-newly-found-dinosaur-sports-fancy-headgear/514191001/>

Julia Hawkins Sets 100-Meter Dash Record for Women 100 Years or Older, Joseph Zucker, CNN  
<http://theachievement.com/articles/2721963-julia-hawkins-sets-100-meter-dash-record-for-women-100-years-or-older>  
 100 year old Expa Singh runs the Mumbai Marathon

**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-irpt/>

The Savannasaurus eliottorum roamed the earth 95 million years ago

**July 27, 2017**  
**3. Curiosity, Intrigue, Unknowns:**  
**E. Meet Corythoraptor: Newly found dinosaur resembles ostrich gone bad**  
**Traci Watson, USA Today**  
<https://www.usatoday.com/story/news/2017/07/27/meet-corythoraptor-newly-found-dinosaur-sports-fancy-headgear/514191001/>

**A NEW BIRD-LIKE DINOSAUR**  
 A new dinosaur named Corythoraptor jacobsi resembles the modern-day cassowary, a large, flightless bird.

5-1/2 feet  
 Corythoraptor jacobsi  
 6 feet

A NEWLY DISCOVERED SPECIES OF DINOSAUR LOOKS LIKE AN EGGY OSTRICH

THIS DINOSAUR WAS ABOUT 2 FEET TALL AND HAD A LONG, BENT NECK

SOURCE: Scientific Reports  
 From: Fox.com, USA TODAY

**February 16, 2017**  
**3. Curiosity, Intrigue, Unknowns:**  
**F. 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/>

Astronomers discover 7 Earth-sized planets orbiting nearby star

Known as the Trappist-1 system, the planets orbit a tiny, nearby star

ch for new book

**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.)

**RANDOM.ORG**

Coin Flipper

You flipped 2 coins of type Irish €1:



Timestamp: 2011-08-13 01:04:43 UTC

[Flip Again](#) [Go Back](#)

**RANDOM.ORG**

Dice Roller

You rolled 2 dice:



Timestamp: 2011-08-13 01:04:43 UTC

[Roll Again](#) [Go Back](#)

**RANDOM.ORG**

List Randomizer

There were 10 items in your list. Here they are in random order:

Item	Random Sequence Generator
1. Bill	10
2. Arthur	10
3. Thomas	10
4. Stanley	10
5. Sharon	10
6. Sharon	10
7. Susan	10
8. Stephanie	10
9. Heidi	10
10. Brian	10

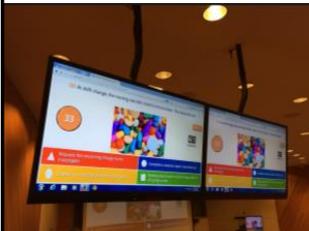
Timestamp: 2011-08-13 01:04:43 UTC

[Roll Again](#) [Go Back](#)

**October 5, 2016**  
**4. Variety, Novelty, Fun, Fantasy:**  
**B. Online Test/Quiz Review Games**  
(e.g., Jeopardy Rocks)  
<https://www.jeopardy.rocks/r511merge/>




**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/technology-in-the-classroom/i-am-in-kahoots-with-technology-in-the-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  
<https://newlearningtimes.com/cms/article/4519/learning-chemistry-in-virtual-reality>  
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>  
1:16-1:36: <http://curtbonk.com/chemistry-vr-3.html>




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



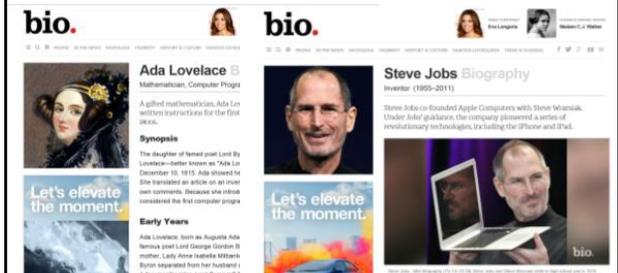
**December 8, 2015**  
**5. Autonomy, Choice:**  
**B. Design Multimedia Glossaries**

P540 Final Assignment: Nate Wynne, Supersized Personal Course Glossary  
<http://natewynne1982.wik.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>



**Poll #5:**  
**Any light bulbs going off in your head so far...?**

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



**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)

Slide 106, aorta with atherosclerotic plaques

Slide 137, colon with pseudo-membranous colitis.

Slide 137, colon with pseudo-membranous colitis.

Slide 155, bone marrow with erythrocyte reduction

Slide 166, bone marrow with erythrocyte reduction

*I'd like to take the quiz now.*

**Stomach, endoscopic examination and biopsy**  
**Poorly differentiated tubular adenocarcinoma**

**Final conclusion:**  
**Advanced gastric carcinoma with multiple lung metastasis with lymphatic growth**

**July 28, 2017**  
**6. Relevance, Meaningfulness:**  
**C. Case-Based Learning: Modern medicine breathes new life into virtual training**  
<https://www.usatoday.com/videos/tech/2017/07/28/modern-medicine-breathes-new-life-into-virtual-training/104073696/>  
**Videos**  
 2:34 (entire video): <http://curtbonk.com/vr-medicine4b.html>  
 .01-.21: <http://curtbonk.com/vr-medicine.html>  
 .37-.56: <http://curtbonk.com/vr-medicine2.html>  
 .57-1.29: <http://curtbonk.com/vr-medicine3.html>  
 1:30-2:27: <http://curtbonk.com/vr-medicine4.html>



Modern medicine breathes new life into virtual training

are all cues that, okay, I have to do this now or else I'm going to be in trouble. And when you make possibility of practicing it would be nice.

**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.gazetteextra.com/2015/09/24/new\\_willdewater\\_teacher\\_explains\\_links\\_between\\_germans\\_beer\\_politics\\_brownk@uw.edu](http://www.gazetteextra.com/2015/09/24/new_willdewater_teacher_explains_links_between_germans_beer_politics_brownk@uw.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**  
<http://www.latimes.com/local/lanow/la-me-wikipedia-science-classes-adv-snap-story.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)

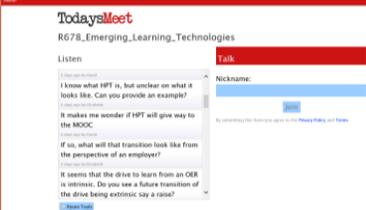
**7. Interactive, Collaborative:**  
**A. Negotiate Meanings Online**  
**(e.g., PiratePad: <http://meetingwords.com/>)**  
<https://blogs.edon.edu/technology/6-collaborative-writing-applications-for-group-projects-or-panels/>  
**MeetingWords, Google Docs, NowComment, MixedInk**



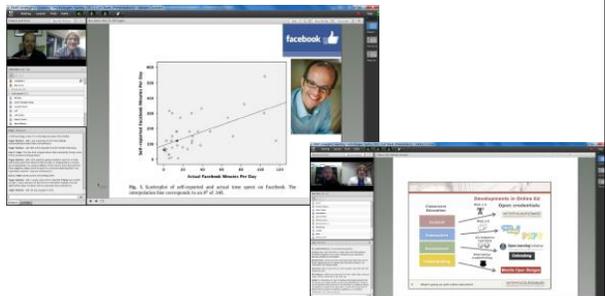
**7. Interactive, Collaborative:**  
**B. Virtual Sharing Walls**  
**e.g., Padlet (What is your secret recipe to engage?)**  
[http://padlet.com/zaid\\_alsagoff/engage](http://padlet.com/zaid_alsagoff/engage)



**7. Interactive, Collaborative:**  
**C. Backchannel Chat (TodaysMeet)**  
<https://todaysmeet.com/>  
**R678\_Emerging\_Learning\_Technologies**  
[https://todaysmeet.com/R678\\_Emerging\\_Learning\\_Technologies](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. 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: 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/1621113/>

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 Pompea, USA TODAY

### March 30, 2017 8. Engagement, Involvement: B. Interactive Timelines

(Dipity, xtimeline, Simile, TimeLineCurator, etc.)

<http://usatoday30.usatoday.com/tech/news/story/2011-09-22/steve-jobs-dies/50672498/1>

<http://www.chronicle.com/blog/prof/hacker/simplify-timeline-creation-with-timelinecurator/63822>

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

### December 13, 2016 9. Tension, Challenge, Controversy, etc.: A. Controversial Issue Debates

Librarians for Instructional Technology, Latrice Booker, R511, Fall 2016

<http://bookerl2000.wixsite.com/librariansforit/cognitivism>

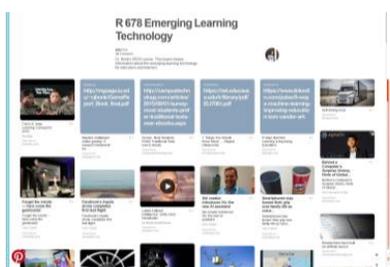
**October 16, 2015**  
**9. Tension, Challenge, Controversy, etc.:**  
**B. Case Learning from the News**  
 (e.g., Newseum Ed)  
<https://newseumed.org/>



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

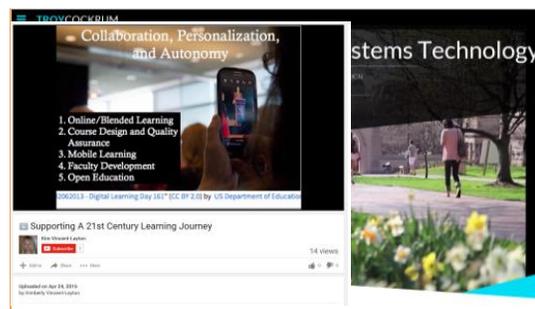


**10. Yields Products, Goals:**  
**B. Database Collection Tools**  
**Design Article Database in Pinterest,**  
**Meina Zhu and Jennifer Weebeck**  
<https://www.pinterest.com/zhumeina0000/r-678-emerging-learning-technology/>  
<https://www.pinterest.com/jennifertwebeck/emerging-learning-technologies/>



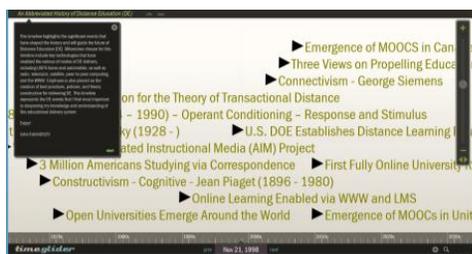
**10. Yields Products, Goals:**  
**C. Student Created Recap Videos**

Piercarlo Abate: <http://www.youtube.com/watch?v=-TURxH00aU>  
 Qi Li, Gangnam: <http://www.youtube.com/watch?v=7Q429iqZaU8&feature=youtu.be>  
 Miguel Lara (Web 2.0 FREEDOM): <http://www.youtube.com/watch?v=8amCFWIRW8>  
 Kendal Rasnake (Is IT Right For You?): <https://www.youtube.com/watch?v=M33GUDICIGW>  
 Kimberly Vincent-Layton: [https://www.youtube.com/watch?v=4IC39\\_rYL2A&feature=youtu.be](https://www.youtube.com/watch?v=4IC39_rYL2A&feature=youtu.be)



**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/r/50843d8903e480687min\\_zoom=1&max\\_zoom=100](http://timeglider.com/r/50843d8903e480687min_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**

**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:** Challenge, Dissonance, Controversy
10. **Yielding Products:** Goal Driven, Purposeful Vision, Ownership

**Masterclass Part 2:**  
**Best Practices for Online and Blended learning:**  
**Introducing the R2D2 Model**

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



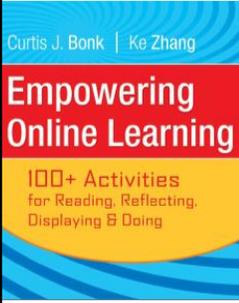
**Addressing Learning Styles with R2D2**



**Question: How can technology address diverse learner needs?**



**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 Hinnefeld, IU Newsroom

[http://inside.indiana.edu/headlines/2016-01-20-new-campus-podcast.shtml?utm\\_source=2016-01-20&utm\\_medium=newletter&utm\\_content=Something-in-the-air&utm\\_campaign=2016-inside-sub-distribution](http://inside.indiana.edu/headlines/2016-01-20-new-campus-podcast.shtml?utm_source=2016-01-20&utm_medium=newletter&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 Luqmann 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](http://en.wikipedia.org/wiki/Vannevar_Bush)

JULY 1945

## As We May Think

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



## May 28, 2015

## Read 1d. Immediate Science and Open Access 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>  
<http://www.cnn.com/2015/05/28/africa/ethiopia-fossil-hominin-ancestor/index.html>  
<http://www.nature.com/nature/journal/v521/n7553/full/nature14448.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., [Can a Living Creature Be as Big as a Galaxy?](http://www.bigquestionsonline.com/))

## April 15, 2017

### Reflect 2B. "What if" Questions?

#### Emma Morano, Last Known Person Born During The 1800s, Dies, Hilary Hanson, Huffington Post

[http://www.huffingtonpost.com/entry/emma-morano-dies-born-1800s\\_us\\_58f2581de4b0bb9638e455d57ncid=inblkushpmp00000009](http://www.huffingtonpost.com/entry/emma-morano-dies-born-1800s_us_58f2581de4b0bb9638e455d57ncid=inblkushpmp00000009)  
[http://www.huffingtonpost.com/entry/oldest-woman-emma-morano\\_us\\_583gae2ae4b066539a78a760c](http://www.huffingtonpost.com/entry/oldest-woman-emma-morano_us_583gae2ae4b066539a78a760c)

**Emma Morano, Last Known Person Born During The 1800s, Dies**

She attributed her long life to staying single.

## Reflect 2c. Cultural Blogs

(e.g., Dr. Kim Foreman, San Fran State Univ, Come and See Africa Blog; <http://comeandseeafrica.blogspot.com/>)

## Reflect 2d. Workplace Internship, Practicum, and Field Experiences

## 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

2,000 Ha of cleared rainforest = 1.5B miles driven by passenger car = 58,819 trips around the earth

World Resources Institute



**December 17, 2015**  
**Display 3h. Graphical Recordings**  
 Elliott Masie's Learning 2015, Nov 1-4, 2015  
<http://learningtalks.com/learning-2015-videos/sabrina-kay-the-learner/>  
<http://www.imagemathlink.net/>

**February 21, 2017**  
**Display 3i. "My classroom is like a,"**  
**Khendum Gyabak**  
<http://wheeldecide.com/index.php?c1=3&template=2&hospital=3&Warzone&c1=2&template=5&Garden&c1=My+classroom+is+like+a&time=5>  
<http://wheeldecide.com/>

**December 15, 2016**  
**Display 3j. 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 3k. 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 Research Recap Video**  
**R511, Rob Elliot, Erin Milanese, and Patrick Walsh**  
**Traditional Textbook (8:11)**  
<https://drive.google.com/file/d/0B25ACR0G0u5NE50u5181g9HwVw/view>

**Do 4c. Student Website Development**  
**R511 Final Projects, April 2016**  
 IT and HPT Comparison (Website), Doug Hsu  
<http://dougandindra.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 Basdogan and Brett Gary, R511, December 2016  
<http://educbasdogan.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: 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: 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](mailto:CJBonk@Indiana.edu)**