Teaching and Learning with Technology: Ultra-Engaging Online and Blended Learning

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(Circa Confucius 551–479 BCE)

July 11, 2017
The Rise of the Phigital Learner
Going ‘phigital?’ 4 things schools need to know about Generation Z, Todd Kominiak, TrustEd
May 15, 2017
3 must know’s about the rising “phigital” student—and why their impact is enormous, Meris Stansbury, eCampus News

Clearly...
Learning is Changing!

Education 20/20

20 New Roles of the Instructor
Merrill’s First Principles of Teaching/Instruction

1. The Principle of Flexibility

Bonk’s Last Principles of Teaching/Instruction (Education 4.0?)

11. The Principle of Sharing

6. The Principle of Choice and Options
11/22/2019

20. ??? (what is missing)
   http://travelinedman.blogspot.com/2011/05/bonks-last-principles-of-instruction.html

Poll #1: Ok, Who’s thirsty?

At Starbucks:
Online Learning is a Perk!

Starbucks Coffee Korea employees learn how to use the firm’s online learning system “Starbucks Academy,” which was introduced, Wednesday. The two-way learning system provides some 5,000 employees in Korea with various reeducation services, including encyclopedias, latest news and information about coffee among others. Starbucks Korea is the first affiliate of the international coffeehouse selling its products in 60 countries to introduce the system.

Poll #2: Now who’s thirsty?

Universities tap growth of craft beer, offer classes, Chicago Tribune

Top Program at Oregon State is a blended learning program in beermaking!

January 16, 2019
Survey: Online, Blended Dominate Today’s Learning Environments
   Rhea Kolly, Campus Technology
   Campus Technology’s 2018 Teaching with Technology Survey
January 16, 2019
Survey: Online, Blended Dominate Today’s Learning Environments
Rhea Kelly, Campus Technology
Campus Technology’s 2018 Teaching with Technology Survey
https://campustechnology.com/articles/2019/01/16/survey
Part I. A Dozen Examples of Blended Learning

March 25, 2019
Blended Solution #1.
Use the Media to Supplement Content
Engineering Technology
http://engineertech.org/

May 13, 2019
Blended Solution #2.
Something in the News
Carbon Dioxide Levels In The Atmosphere Hit Highest Mark In Human History
Nina Golkowski, The Huffington Post
https://www.huffpost.com/entry/co2-levels-hit-new-high_n_5cd9882ae4b0c388e584eb09

Blended Solution #3.
Virtual Labs and Sensors
Conduct physical model simulations of soil and soil-structure systems subjected to an earthquake.
https://virtuallyinspired.org/portfolio/online-engineering-lab-with-high-end-equipment/
https://www.youtube.com/watch?v=_CY8sx41_9w

March 8, 2019
Blended Solution #4.
Analyzing Online Raw Data
(e.g., Editing computer code; 12 Best Code Editors for Mac and Windows for Editing WordPress Files)
https://www.wpbeginner.com/showcase/12-best-code-editors-for-mac-and-windows-for-editing-wordpress-files/
Blended Solution #5.
Reading from Open Access Journals (e.g., DOAJ—Directory of Open Access Journals)
https://doaj.org/
https://www.electrical4u.com/

Blended Solution #6.
Online Role Play or Debate (e.g., documentary production)

Blended Solution #7.
Streaming Live Events
Open Data Science Conference (ODSC)
Women in Data Science, Stanford University
https://www.widsconference.org/speakers-466253.html

Blended Solution #8.
Online Practice Tests and Interactive Flash Cards (e.g., Physics)
http://quizlet.com/
https://www.electrical4u.com/electrical-engineering/objective-questions-mcq/

Blended Solution #9.
Flipping the Classroom
Steve Skerlos, Professor in Mechanical Engineering at the University of Michigan, highlights the “flipped classroom” model to engage students during class through active participation.

Blended Solution #10.
Online Videos with Test Questions (e.g., TEDEd)
(Lessons about every single element on the periodic table)
**Blended Solution #11.**
Video Tutorials, Demonstrations, and How-To’s (videos, tutorials, etc.)
(Jing, GoView, Screenr, Overstream, Screencast-o-Matic)

**August 22, 2019**
Blended Solution #12. Blended Students
At Indiana U., video platform blends traditional and distance education
Betsy Foresman, edscoop
https://edscoop.com/indiana-university-video-conferencing-technology/

**Part II: Best Practices for Online and Blended learning:**
Introducing the TEC-VARIETY Model
http://tec-variety.com/

**Needed: New Models of Motivation and Engagement**

**October 22, 2019**
Indian students wear boxes on their heads during exam to prevent cheating
Jessie Yeung, CNN

**March 20, 2015**
Bihar cheating scandal: What parents in India will do for good grades
Kunal Sehgal, CNN
November 12, 2019
More South Korean academics caught naming kids as co-authors
Mark Zastrow, Nature
https://www.nature.com/articles/d41586-019-03371-o

Poll #3: What did Jean-Luc Picard say?

Motivation Research Highlights (Jere Brophy, Michigan State University)
1. Supportive, appropriate challenge, meaningful, moderation/optimal.
2. Teach goal setting and self-reinforcement.
4. Novelty, variety, choice, adaptable to interests.
5. Game-like, fun, fantasy, curiosity, suspense, active.
6. Higher levels, divergence, dissonance, peer interaction.
7. Allow to create finished products.
8. Provide immediate feedback, advance organizers.
9. Show intensity, enthusiasm, interest, minimize anxiety.
10. Make content personal, concrete, familiar.

Examples of TEC-VARIETY

April 3, 2017
1. Tone/Climate:
A. Slido
https://www.slido.com/
1. Tone/Climate:
   B. Threaded Video Discussions and Questions
   (e.g., Flipgrid)
   Microsoft acquires social learning platform Flipgrid,
   Brian Heater, TechCrunch
   https://techcrunch.com/2018/06/18/microsoft-acquires-social-learning-platform-flipgrid/

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

3. Curiosity, Intrigue, Unknowns:
   A. 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)
March 31, 2019
3. Curiosity, Intrigue, Unknowns:
A. Multimedia News
Ancient whales walked on four legs and moved like giant otters -- seriously
Jen Christensen, CNN

April 17, 2017
3. Curiosity, Intrigue, Unknowns:
B. Extreme News
1st woman to officially run Boston Marathon does it again, 50 years later
Emanuella Grinberg, CNN, USA Today

September 27, 2018
3. Curiosity, Intrigue, Unknowns:
C. Immediate Science
New 26,000-pound dinosaur discovery was Earth’s largest land animal, Ashley Strickland, CNN

February 21, 2019
Learning is More Immediate...
Tiny tyrannosaur fossil discovery changes the dinosaur timeline
Ashley Strickland, CNN

November 28, 2018
Learning is More Immediate...
'Siberian unicorn' once walked among early humans
Tara John, CNN

November 19, 2015
Learning is More Immediate...
New daddy longlegs named after 'Lord of the Rings' character Smeagol, Mary Bowerman, USA Today
4. Variety, Novelty, Fun, Fantasy:

A. Random Lists
(Random.org—clocks, coins, playing cards, dice, integers, passwords, jazz scales, lists, sequences, etc.)

B. Online Test/Quiz Review Games
(e.g., Jeopardy Rocks)
https://www.jeopardy.rocks/r511merve/

C. Kahoot!
https://getkahoot.com/
July 31, 2017
I'm in 'Kahoots' with Technology in the Classroom
Cassandra OSullivan Sachar, Faculty Focus

D. Design or Play Games
Mash Up and Republish Like It's 1923
Greg Toppo, Inside Higher Ed
October 10, 2018

E. FutureMe.org
Write a letter to the future
https://www.futureme.org/
February 21, 2017

F. My classroom is like a,”
http://wheeldecide.com/index.php?c1=Jungle&c2=Hospital&c3=Warzone&c4=Temple&c5=Garden&t=My+classroom+is+like+a&time=5
http://wheeldecide.com/
January 14, 2019
5. Autonomy, Choice:
A. Enroll in a MOOC and Reflect (e.g., see Class Central)
B. Beer Matters: Free Online Class With Meetups
   Karl Brown, Assistant Professor of History
   http://www.uww.edu/ce/beer
   https://vimeo.com/286408659
   Video: http://curtbonk.com/beer.html (1:11)

B. 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-20835333

C. Design Multimedia Glossaries
   P540 Final Assignment: Nate Wynne, Supersized Personal Course Glossary
   http://natewynne1982.wix.com/p540courseglossary
   Ozgur Ozdemir, December 2012
   http://rsl0glossary.shutterfly.com/
   Umida Khikmatillaeva, Dec. 2011, P540
   http://learningplanet.shutterfly.com/

Poll #4:
Any light bulbs going off in your head so far...?
A. Yes definitely***
B. Yes maybe!
C. Not yet (but hopefully soon...)

Poll #5:
Which of these ideas might you use?
A. Threaded video discussions (e.g., Flipgrid)
B. Enroll in a MOOC
C. Demonstrations and tutorials (Jing, Screenr, etc.)
D. Voice/Audio feedback (Vocaroo)
E. Designing multimedia glossaries
F. Something in the News
G. Summary and Comparison Maps
H. Immediate Science

5. Autonomy, Choice:
B. 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-20835333

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F. Something in the News
G. Summary and Comparison Maps
H. Immediate Science

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)

March 20, 2018
6. Relevance, Meaningfulness:
C. Editing Wikipedia Pages
Women’s-Studies Students Across the Nation Are Editing Wikipedia

Emma Kerr, The Chronicle of Higher Education
https://www.chronicle.com/article/Womens-Studies-Students/242866

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 in medical topics with students’ work.

7. Interactive, Collaborative:
A. Negotiate Meanings Online (e.g., PiratePad: http://meetingwords.com/)
http://blogs.elon.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. Guest Speaker Quotes (Rey Junco, February 25, 2013)

7. Interactive, Collaborative:
D. Civil Engineering Virtual Lab Collaboration
The decision to use the centrifuge as a virtual laboratory brings the opportunity for remote collaboration and major experimentation into geotechnical engineering classes. A partnership between RPI, Southern Methodist University (SMU), based in Dallas, TX, and the University of North Carolina (UNC) of Chapel Hill enables students to conduct experiments, access, interpret, evaluate, and exchange relevant technical information.
https://virtuallyinspired.org/portfolio/online-engineering-lab-with-high-end-equipment/
7. Interactive, Collaborative:

E. Explore Simulations in Virtually Inspired

https://virtuallyinspired.org/portfolio/online-engineering-lab

March 27 and April 12, 2019

7. Interactive, Collaborative:

F. Cross-Institutional and Cross-Cultural Projects

Learning From Others Across the World Through Video Exchange

Melanie Hering, New Learning Times


Four Steps to Create Cross-Cultural Collaboration in Online Classes

Sara Hardman, New Learning Times

https://newlearningtimes.com/cms/article/6119/four-steps-to-create-cross-cultural-collaboration

7. Interactive, Collaborative:

F. Global Collaboration

CNA - Speaking Exchange (video chats)

https://www.youtube.com/watch?v=S-5EfwpFQk

FCB Brazil and the CNA language school network are launching the Speaking Exchange project, which connects CNA students in Brazil with Americans living in retirement homes.

July 17, 2017

8. Engagement, Involvement:

A. Learning Chemistry in Virtual Reality

Beth McMurtrie, The Chronicle of Higher Education

https://www.chronicle.com/interactives/20190528-ImmersiveTech

A virtual-reality experience for students in a conducting class:

http://curtbonk.com/virtual-o.htm

A group of students could gather around a virtual heart:

http://curtbonk.com/vrheart.html

Unlike VR headsets, augmented-reality glasses allow users to see the world around them, opening up possibilities for shared learning experiences. A group of students could gather around a virtual heart as their professor takes it apart to show them the components. (Microsoft)

May 28, 2019

8. Engagement, Involvement:

B. Virtual Reality Comes to the Classroom

Sarah Hardman, New Learning Times

https://thejournal.com/articles/2017/05/18/google-expeditions-adds-augmented-reality-for-classrooms.aspx

https://www.youtube.com/watch?v=DYqlaMWTVg

27 seconds

http://curtbonk.com/thejournal27.html

38 Seconds

http://curtbonk.com/thejournal38.html

1: 10:

http://curtbonk.com/thejournal.html

May 18, 2017

8. Engagement, Involvement:

C. Learning is More Immersive

Sri Ravipati, THE Journal

https://thejournal.com/articles/2017/05/18/google-expeditions-adds-augmented-reality-for-classrooms.aspx

https://www.youtube.com/watch?v=DYqlaMWTVg

27 seconds

http://curtbonk.com/thejournal27.html

38 Seconds

http://curtbonk.com/thejournal38.html

1: 10:

http://curtbonk.com/thejournal.html
July 26, 2018
8. Engagement, Involvement: C. Learning is More Immersive
Rome Reborn
https://www.romereborn.org/

May 28, 2019
8. Engagement, Involvement: C. Virtual Worlds for English Literature
Virtual Reality Comes to the Classroom
Michael Bugeja, The Chronicle of Higher Education
https://www.chronicle.com/interactives/20190528-ImmersiveTech

May 28, 2019
8. Engagement, Involvement: C. Learning is More Immersive
Virtual Reality Comes to the Classroom
Beth McMurtrie, The Chronicle of Higher Education
https://www.chronicle.com/interactives/20190528-ImmersiveTech

May 28, 2019
8. Engagement, Involvement: C. Learning is More Immersive
Virtual Reality Comes to the Classroom
Tommy Palladino, Next Reality

July 19, 2017
8. Engagement, Involvement: C. HoloLens Assists in Live Surgery
Numerous examples exist of doctors and surgeons using HoloLens and similar devices. The technology has even been used to view reference images during a procedure and stream it to a remote audience. Until recently, it has not been used to augment the surgeon’s view of the patient during a live surgery.

July 25, 2019
8. Engagement, Involvement: C. Digital conservationist group CyArk captured images of each site using photogrammetry, enabling virtual tourists to walk through 360-degree renderings of places that are normally off limits.
https://www.cyark.org/

July 23, 2019
8. Engagement, Involvement: C. Explore Four World Heritage Sites in VR With MasterWorks
Sara Hardman, New Learning Times
August 8, 2017

8. Engagement, Involvement: C. Games and Simulations

ShortSims
http://www.shortsims.com/
Clark Aldrich clark@clarkaldrichdesigns.com

December 5, 2018

8. Engagement, Involvement: D. Virtual Reality

Empathy Starter, Penny Pan
http://www.atplay.tw/projects

February 14, 2018

8. Engagement, Involvement: F. Maps
(This map shows where more Americans are willing to support free speech, The Monkey Cage, The Washington Post)

Amy Cavender, The Chronicle of Higher Education

March 30, 2017

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

Amy Cavender, The Chronicle of Higher Education

July 28, 2017

9. Tension, Challenge, Controversy, etc.: A. Scenario-Based Learning and Challenges

Modern medicine breathes new life into virtual training
9. Tension, Challenge, Controversy, etc.: B. Controversial Issue Debates
Librarians for Instructional Technology, Latrice Booker, R511, Fall 2016
http://bookerlr2000.wixsite.com/librariansforit/cognitivism

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

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

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

March 12, 2016
10. Yields Products, Goals: C. Student Generated Timelines, Taxonomies, and Concept Maps
R678 John Falchi, Timedgider, An Abbreviated History of Distance Education
http://timeglider.com/t/50843d8903a48008?min_zoom=1&max_zoom=100

September 3, 2017
Yields Products, Goals:
D. Mindmap Recaps of Online Discussions
Mindmap of Week 2 of R511
10. Yields Products, Goals: 
E. Goal Setting Tools
(e.g., I Done This, Milestone Planner, and 43 Things)

Poll #5: Which of these ideas might you use?
A. Mindmaps of online discussions
B. Edit Wikipedia pages
C. Guest chats with experts and former students
D. Negotiate meanings online (e.g., PiratePad)
E. Online case analyses
F. Facebook course page
G. Guest speaker quotes
H. Student website development

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

Poll: Now who wants one of these? Any Bingo’s?

Part III: The R2D2 Model:
Read, Reflect, Display, Do…
Question: How can technology address diverse learner needs?

The R2D2 Model
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.

February 11, 2018
Read 1a. Online Referenceware
The Magical Power of Dictionaries
Alberto Manguel, The Chronicle of Higher Education
https://chronicle.com/article/The-Magical-Power-of/

January 20, 2016
Read 1b. Listen to Podcasts

Read 1c. Twitter Fed Class Discussions (e.g., in data science)
June 19, 2019
Read 1c. DeepZen will allow authors to turn ebooks into audiobooks
Michael Kozlowski, Good e-Reader
Deep Zen, IBM
1) http://curtbonk.com/deepzen1.html
2) http://curtbonk.com/deepzen2.html

February 24, 2019
Reflect 2b. Big Issue Reflections
Can Students Handle the Big Questions?
Beth McMurtrie, The Chronicle of Higher Education
https://www.chronicle.com/article/Can-Students-Handle-the-Big/245753
https://godandgoodlife.nd.edu/
https://godandgoodlife.nd.edu/syllabus/
https://www.youtube.com/watch?time_continue=104&v=EMKbtSC3-2I

May 28, 2019
Reflect 2c. What-if Reflections
What If Artificial Intelligence (AI) & Machine Learning (ML) Ruled the World?
Steve Andriole, Forbes

April 13, 2016
Reflect 2d. Interpreting Interactive Graphs and Infographics
How much rainforest in that chocolate bar?
Tech billionaire announces $250 million in cancer immunotherapy funding;
Jayne O'Donnell, USA Today

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
July 5, 2018
Reflect 2e. Vialogues
EdLab Seminar—Engaging Educators with Digital Collections
Vialogue, Sara Hartman, New Learning Times
https://newlearningtimes.com/cms/article/3426/how-academic-publishing-is-changing-in-the-

October 24, 2018
Reflect 2f. Workplace Internship, Practicum, and Field Experiences

May 2, 2019
Reflect 2h. Learning is More Digitally Rich...
What was Leonardo da Vinci doing at your age?, CNN
https://www.cnn.com/interactive/style/leonardo500/

3. Visual Learners
• Visual learners prefer diagrams, flowcharts, timelines, pictures, films, and demonstrations.

Display 3a. Virtualize Words Used (e.g., Wordle, Tagzeda, Tagul, WordSift, Word It Out)
October 1, 2018
Display 3b. Detailed New National Maps Show How Neighborhoods Shape Children for Life
By Emily Badger and Quoctrung Bui. The New York times

April 3, 2019
Display 3c. Summary and Comparison Maps #GeoawesomeMapOfTheDay
https://twitter.com/geoawesomeness
https://www.instagram.com/p/BNwgvJfDAq3/
https://twitter.com/hashtag/GeoawesomeMapOfTheDay?src=hash

December 17, 2015
Display 3d. Graphical Recordings
Elliott Masie’s Learning 2015, Nov 1-4, 2015
http://www.imagethink.net

Display 3e. (April 28, 2015)
Concept Mapping and Timeline Tools (Bubbl.us, Cmap, Gliffy, Spicynodes, or Mindomo)
http://www.spicynodes.org/index.html

December 15, 2016
Display 3f. 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 3g. Short Video Anchors (e.g., TubeChop of V-PORTAL: Video Primers in an Online Repository of e-Teaching and Learning)
Curt Burke: 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. Sample Student Work
e.g., Interactive Archive/Gallery of best work
https://arce.calpoly.edu/student-work-0
https://coen.boisestate.edu/ece/ece-photo-gallery/

Do 4b. Student Created Recap Videos
Piercarlo Abate: http://www.youtube.com/watch?v=_-TURzHO0aU
Qi Li, Gangnam: http://www.youtube.com/watch?v=7Q429lqxZaU&feature=youtu.be
Miguel Lara (Web 2.0 FREEDOM): http://www.youtube.com/watch?v=8cmCFWi9lW8
Kendal Rasnake (Is IT Right For You?): https://www.youtube.com/watch?v=MJ3GUDICIGw

March 11, 2018
Do 4c. PBL in Puerto Rico
https://sites.google.com/iu.edu/pbl-in-puerto-rico/home

Poll #6:
Which of these ideas might you use?
A. Interactive map timelines
B. Visualize words used
C. Issue challenges, role plays, and debates
D. Student designed course recap videos
E. Student infographics
F. Interactive timeline tools
G. What-if reflections
Poll #7: 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.

Poll #8: Which do you prefer... (A) TEC-VARIETY or (B) R2D2?

We are entering a jumping off point...
(South University of Science and Technology of China, Wednesday June 10, 2015)

Any Questions or Comments?

Slides at: TrainingShare.com
Papers: PublicationShare.com
Free book: http://tec-variety.com/
Dr. Curt Bonk – CJBonk@Indiana.edu
http://curtbonk.com/