

Hyper-Engaging Strategies to Enhance, Extend, and Even Transform Your Teaching

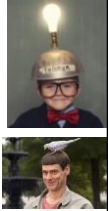
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cjbonk@Indiana.edu
<http://curtbonk.com/>



1

Poll #1: Did the pandemic make you smarter or dumber?

- a. Definitely, much smarter!
- b. A bit smarter...
- c. I cannot say.
- d. A bit dumber at times.
- e. Definitely dumber and I suffered from learning loss.



2

Poll #2: Have you reflected on your teaching philosophy or learning approach during the pandemic?

- a. Yes many times and I am dramatically changing my philosophy statement.
- b. Yes sometimes and I am taking action (meeting people, reading more, attending webinars like this, etc.).
- c. Well, I thought about it a couple of times and I am tweaking it.
- d. Not sure. I'm kinda brain dead right now.
- e. No, my teaching philosophy is basically the same.



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Polling Question #3: Have you ever taught a blended learning or HyFlex course?

- a. Yes many.
- b. Yes, just a couple.
- c. No, but I taught one or more technology enhanced ones.
- d. No but I am willing to try.
- e. No and I like it that way.



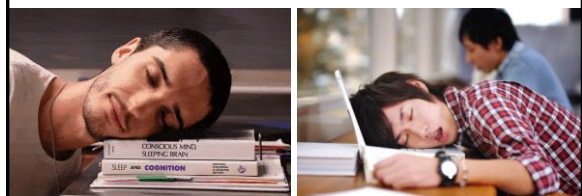
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Polling Question #4: Are we in the midst of a: A. Learning Evolution or B. Learning Revolution... C. Neither



5

Needed: New Models of Motivation and Engagement



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Hyper-Engaging Framework #1 Hybrid-Flexible Course Design

<https://edtechbooks.org/hyflex>



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Fall 2021

Hybrid Modality: HyFlex Teaching

<https://instructionalcontinuity.georgetown.edu/pedagogies-and-strategies/hybrid-hyflex-teaching/>

In a HyFlex course, courses are delivered both in person and online at the same time by the same faculty member. For any given class meeting, some students might participate in person, while others might participate at the same time online, made possible by a combination of cameras, microphones, displays, and other technology in the classroom.



Some considerations for Concurrent or HyFlex Teaching and Learning

The physical campus conditions and health conditions will make teaching a HyFlex environment in the fall challenging.

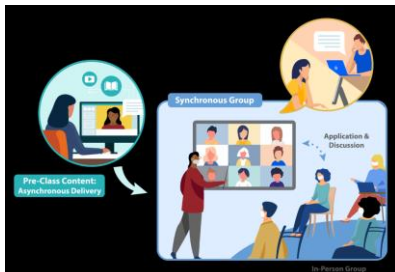
• When considering will require some learning guidelines to be met, the more support to the student will be needed. It will be important to be aware of the needs of the students.

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Fall 2021

Hybrid Modality: HyFlex Teaching

<https://instructionalcontinuity.georgetown.edu/pedagogies-and-strategies/hybrid-hyflex-teaching/>
HyFlex (a term coined by [Brian Beatty](#)) stands for a combination of "hybrid," meaning alternating between face-to-face meetings and remote interactions, and "flexible," meaning students move between these participation options.



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June 17, 2021

How can higher ed move blended learning forward?

Jessica Rowland Williams, eCampus News

<https://www.ecampusnews.com/2021/06/17/how-can-higher-ed-move-blended-learning-forward/>



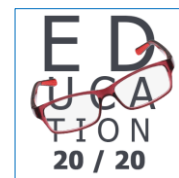
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Hyper-Engaging Framework #2 Education 20/20



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Education 3.0...Education 20/20



"In Education 3.0, classrooms would move away from lectures, such as this one, to having class time be spent on discussions and projects, using digital technology."

(Per Wikipedia: https://en.wikipedia.org/wiki/Education_3.0)

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20 New Roles of the Instructor

Captain **Course Ambassador** **Consumer Advocate**
Counselor **Curator** **Cook** **Change Catalyst**
Conductor **Concierge** **Comedian**
Camping Trip Guide **Coach**
Consultant **Course Expedition Leader** **Collaborator**
Community Organizer **Chemist** **Care Giver**
Cultivator **Colleague**



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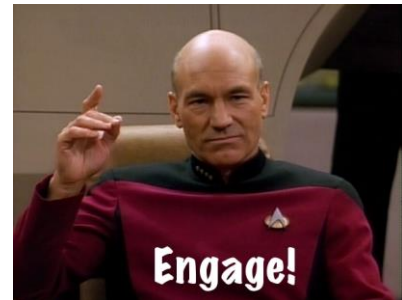
Bonk's 20 "Last" Principles of Instruction (LAST = Learning Activation System Template)

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

Flexibility **Support and Feedback** **Choice and Options**
Convenience **Spontaneity** **Nontraditional Learning**
Collegiality **Organization** **Passion and Inspiration**
Sharing **Relevance and Meaningfulness**
Cheerfulness and Optimism **Trial and Error (i.e., it is ok to fail)**
High Expectations **Purpose and Vision** **Expanded Resources**
Empowerment and Autonomy **Human Connectedness** **#20 ???**
Cognitive Apprenticeship

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Poll #5: What did Jean-Luc Picard say?



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Hyper-Engaging Framework #3 TEC-VARIETY Model

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

Tone/Climate
Encouragement, Feedback
Curiosity

Variety
Autonomy
Relevance
Interactive
Engagement
Tension
Yields Products



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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.



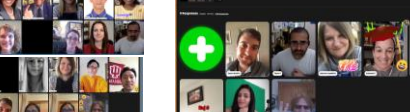
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April 11, 2020

1. Tone/Climax:

C. Threaded Video Discussions and Questions
(e.g., Flipgrid)

Ed Tech with Adam: <https://www.youtube.com/watch?v=hysv0PwqsFs>
<https://techcrunch.com/2018/06/18/microsoft-acquires-social-learning-platform-flipgrid/>



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2. Encouragement, Feedback:

A. Online Practice Tests and Interactive Flash Cards

<http://quizlet.com/>


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June 6 and 27, 2022

2. Encouragement, Feedback:


B. Microcredentials and Certificates

Susan Manning, Ed.D., Director of Customer Education, Credly, eSchool News
<https://www.eschoolnews.com/2022/06/06/microcredential-impact/>
<https://learn.gnovwb.com/about>




The macro impact of microcredentials

Susan Manning, Ed.D., Director of Customer Education, Credly
 June 8, 2022
 By pairing microcredentials with digital credentials, individuals are prepared for a changing workforce and can make a big impact in three key ways




3 reasons microcredentials go mainstream

Rusty Gault, Chief Strategy and Growth Officer, JFF
 June 27, 2022
 Our understanding of learning and work is changing, and our understanding of credentials must not



How, Why, Being Not



Be Social, Be Smart, Be Easy to Understand

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July 8, 2022

3. Curiosity, Intrigue, Unknowns:

A. Multimedia News

Dinosaur discovered in Argentina suggests why many prehistoric predators had small arms

Wyatte Grantham-Philips, USA TODAY

<https://www.usatoday.com/story/news/world/2022/07/08/new-dinosaur-species-argentina-mr-aces-gigas/10011585002/>

news

Dinosaur discovered in Argentina suggests why many prehistoric predators had small arms

Wyatte Grantham-Philips
The Travel

7/8/22 12:00 PM

10011585002

MR. ACES

MONTHLY TICKET

This man and his dog spent seven years walking around the world

7/8/22 12:00 PM





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October 2, 2021

4. Variety, Novelty, Fun, Fantasy:

A. Reverse Brainstorming in Jamboard

<https://jamboard.google.com/d/1uF5b20JdvcFVf05QshaIxuGCLQ3xP-mIGPvF7kqjKA4/viewer?l=5>

The Jamboard features a central title 'Ways to Decrease Creativity in Schools' surrounded by 18 sticky notes, each describing a method to reduce creativity in educational settings:

- great minds in school stagnation
- Teach to the test
- Dictate students
- a lot of teacher lecture
- Warn them off in class all day
- more testing
- have parents do everything
- Please only the parents but not adults, monthly
- large classes
- Use a lot of generative text
- Don't let them decide on their
- Have them watch political.
- Remove the arts
- Block Disruptions
- high stakes testing
- more individual tasks
- Less Freedom
- Take away the arts
- Give a lot of homework and tests
- Strictly follow the fixed contents
- limit teacher creativity
- Less creative materials
- not allow technology

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[illegible]

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5. Autonomy, Choice: B. Reflect on Podcasts and Webcasts



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6. Relevance, Meaningfulness: A. Language Lessons Online

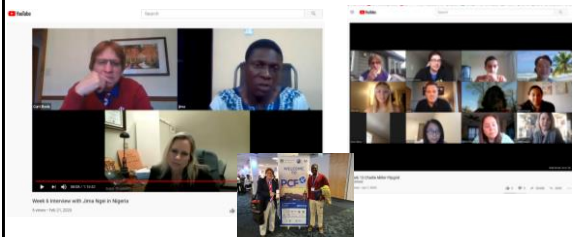
e.g., BBC Learning English, Duolingo, Babbel, SpanishPod, etc.
(Zixi Li & Curt Bonk, June 2022, Duolingo Research)
<http://www.bbc.co.uk/learningenglish>



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April 6 and 28, 2020 6. Relevance, Meaningfulness: B. Weekly Guest Expert Chats

SMILE, Paul Kim Stanford, <https://youtu.be/bf0Ds11hVLU>
February 22, 2020, Jima Ngei in Nigeria (1 hour 15 minutes)
Video: <https://youtu.be/sM6VMsfQJXc>



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Expert, Researcher, or Live Author Interviews and Discussions

Students might read the biography or resume of the guest as well as available articles, books, and other resources about this person. Next, the guest might respond to questions from the class based on these resources.

April 4, 2022, R678 Guest Vanessa Dennen at FSU on Social Media

<https://www.youtube.com/watch?v=-QT2UYE4XRU>

September 17, 2021, Expert chat session with Richard Mayer
(1:17:47): <https://youtu.be/pVo7IRsbqkA>



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February 28, 2022 6. Relevance, Meaningfulness: C. Past, Present, and Future Panels

R678 with Tom Reeves, Tom Reynolds, Veronica Acosta, and Okhwa Lee
<https://youtu.be/BUu9vDqixw>



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November 27, 2021 6. Relevance, Meaningfulness: D. Guest Chats Playlists, R511, Fall 2021

<https://youtube.com/playlist?list=PLHcReRoW2ixPeQcA1LKtHnJiIMPlpKwP>



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Pedagogical Uses of Shared Online Videos

1. Watch and write review papers
2. Watch and look for themes or common issues
3. Draft educational change models, frameworks, or systems
4. Interview prior participants
5. Draft mini-chapters based on episodes into a book
6. Write future trends papers
7. Remix episodes
8. Tag, rank or categorize the episodes
9. Online discussion forums on episodes
10. Online role play or debate different episodes

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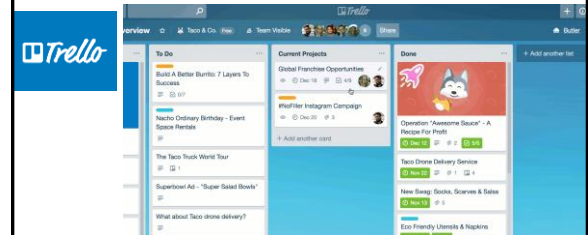
June 27, 2020

7. Interactive, Collaborative:

A. Team Management and Project Coordination

Trello is a team management tool and list-making application to organize online group tasks easily. Trello is for teams to organize team work. However, teachers can use it to manage online group projects or homeschooling activities like in this

Example: <https://youtu.be/L6fUOMXnKxU?t=132>



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7. Interactive, Collaborative: B. Negotiate Meanings Online

(e.g., MeetingWords: <http://meetingwords.com/>)

<http://blogs.elon.edu/technology/6-collaborative-writing-applications-for-group-projects-or-papers/>

Also: Google Docs, NowComment, etc. (MixedInk and PiratePad are no more)

e.g., <https://nowcomment.com/documents/131228>



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Fall 2019, R511

7. Interactive, Collaborative:

C. Team Article Debates

Nuclino (like a wiki...may delete by mistake)

<https://www.nuclino.com/>



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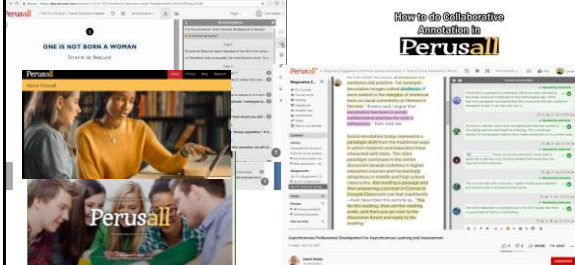
June 3, 2020

7. Interactive, Collaborative: D. Collab Annotation and Group Reading (Perusall)

How to Do Collaborative Annotation and Group Reading in Perusall for Online or Blended Classrooms

EdTech with Adam: <https://www.youtube.com/watch?v=ed91ECmpA>

<https://perusall.com/>



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April 11, 2022

8. Engagement, Involvement:

A. Embedding Links (i.e., ThingLink)

(360 instructional video, teaching some experiments in an advanced science lab.)

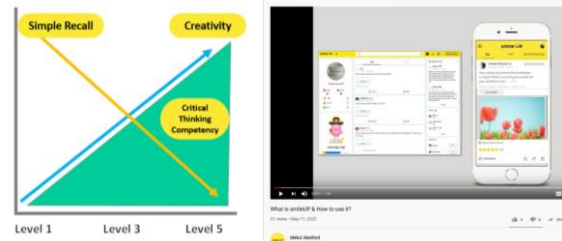
<https://www.thinglink.com/mediacard/1264679527141867522>



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March 22, 2021**8. Engagement, Involvement:****B. Famous Stanford coding course seeks to repeat success of novel model of online learning (10,000 students, 120 countries, 900 volunteer teachers)**
<https://news.stanford.edu/2021/03/22/famous-stanford-coding-course-free-online/>

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May 11, 2020**9. Tension, Challenge, Controversy, etc.:****A. What is smileUP & How to use it?****SMILE, Stanford**<https://www.youtube.com/watch?v=pblU8sSALWo>

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10. Yielding Products:**A. Class Project: Video, Podcast Show, Documentary, Website, Animation, Song, etc.**
<https://aop.animaker.com/animio/2h5b0tz2pxURJ5x4/7aharaid-view%7C2h5b0tz2pxURJ5x4>

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April 23, 2020**10. Yields Products, Goals:****B. Student Generated Timelines, Taxonomies, and Concept Maps**

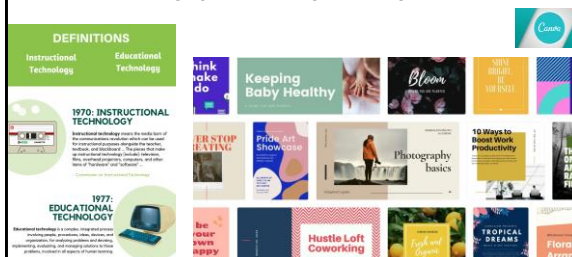
(Sutori, xtimeline, Preceden, Timeline.js, TimelineCurator, Time Mapper, etc.)

http://timeliner.com/1/5084389903a48008?min_zoom=1&max_zoom=100<https://time.graphics/line/356a1211435318430fa1741b50d7552c>

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June 27, 2020**10. Yields Products, Goals:****C. Design Products (students created infographics, brochures, timelines)**

Canva is an online design program that does not require much design skills. You can design professional looking brochures, infographics, PPTs, flyers, and syllabus for free.



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Make Commitments:**Stop and Share in Chat Window:**

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



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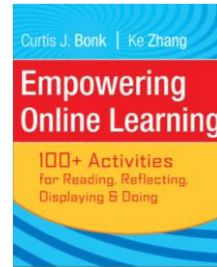
Poll #5: Any light bulbs going off in you head so far?

- Yes definitely...many of them...pop...pop...pop!
- Yes, several times.
- Yes maybe!
- Not yet (but hopefully soon...)
- Nope. Darn it my brain is not working today.
- There's no hope with this idiot presenting.



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Hyper-Engaging Framework #4 The R2D2 Model: Read, Reflect, Display, Do...



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The R2D2 Model

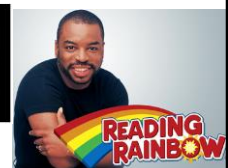
1. Read (Auditory and Verbal Learners)
2. Reflect (Reflective Learners)
3. Display (Visual Learners)
4. Do (Tactile, Kinesthetic, Exploratory Learners)



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1. Auditory or Verbal Learners

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



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Read 1a. Listen to Podcasts

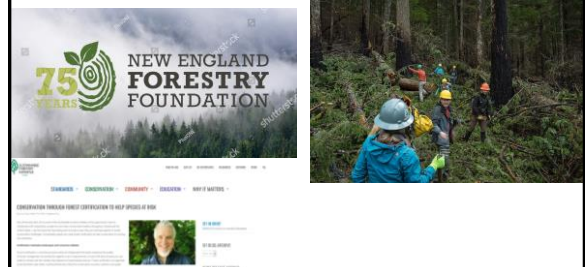
(e.g., Educational: <https://discoverpods.com/educational-podcasts/>)



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March 21, 2020

Read 1b. Read Blogs



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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



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Reflect 2a. Big Issue Reflections and What-If Reflections

(Big Questions Online (BQO))
(e.g., [Can a Living Creature Be as Big as a Galaxy?](https://www.bigquestionsonline.com/))

Forestry & Society Forests of the U.S.--Questions

- What are some major species of eastern forests? Describe them.
- What are some major species of western forests? Describe them. What are some major species of southwestern forests? Describe them. Compare the productivity of temperate forests with tropical and boreal forests.
- Describe the ownership pattern of forestland in the US. What were the major laws that determined US forest land policy? What did they do for US forest policy?

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Reflect 2b. Online Role Play or Debate (e.g., documentary production)

- | | | |
|---|---|--|
| <ul style="list-style-type: none"> • Controller/Executive Director/CEO/Leader • Connector/Relator/Linker/Synthesizer • Decider/Judge/Settler • Devil's Advocate/Critic/Censor • Reflector/Thinker/Speculator/Observer/Watcher • Warrior/Debater/Arguer/Conjuror/Bloodletter • Idea Squelcher/Biased/Preconceiver • Slackter/Slough/Slag/Surfer/Dude | <ul style="list-style-type: none"> • Artist/Idea Person/Visionary/Muse • Planner/Predictor/Guesser/Flowchart • Organizer/Starter/Founder/Initiator • Questioner/Ponderer/Protector • Adventurer/Discoverer/Explorer/Traveler • Mediator/Negotiator/Compromise/Peace-maker • Watchdog/Evaluator/Measurer • Creative Energy/Inventor/Generator/Brainstormer | <ul style="list-style-type: none"> • Optimist/Open-minded/Idealist • Robotic/Information Dumper/Spock-like • Absent Minded/Stumper/Dense/Aimless • Coach/Facilitator/Inspirator/Tutor • Guide/Mentor/Teacher/Scaffolder • Humanitarian/Do Gooder/Final Raiser • Funny/Humorous/Comic/Witty • Advisor/Responder/Helper/Tutor • Worldly/Wiseperson/Sage/Guru/Spiritual Leader |
|---|---|--|

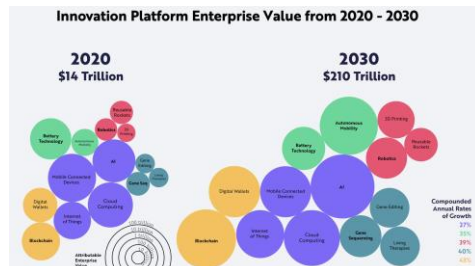


Example 2: Scaffolding...in the form of structuring the online environment and engagement e.g. reflective roles, self-coding, timely-engagement of instructors or otherwise you have "serial monologues."

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November 25, 2021 Reflect 2g. Interpreting Interactive Graphs and Infographics

ARK Invest
<https://ark-invest.com/articles/portfolio-constructs/quality-market-cap-associated-with-innovation/>



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3. Visual Learners

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



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March 31, 2022 Display 3a. Short Educational Videos: Anchored Instruction/Macrocontext

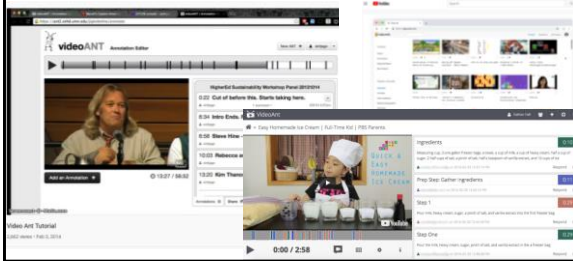
TEDE, BBC News, and New York Times
<https://www.ted.com/> and <https://www.youtube.com/c/BBCNews/featured>



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Display 3b. Video Annotation and Commenting Tools

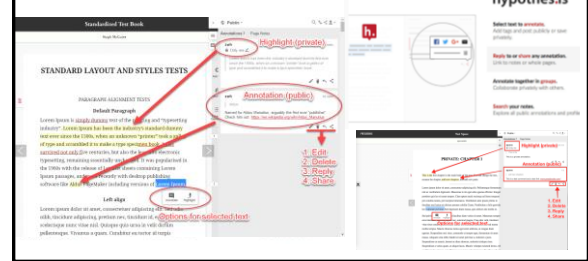
VideoAnt (Free): <https://ant.umn.edu/> (Univ. of Minnesota)
<https://www.youtube.com/watch?v=1SOE2aQky2I>
Edpuzzle (Free): <https://www.youtube.com/watch?v=-162wAx CzEM>



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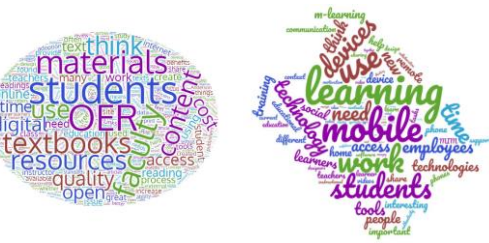
Display 3c. Collaborative Web and PDF Annotation Tools

Hypothes.is (Free): <https://web.hypothes.is/>
 Note Anywhere: <https://www.youtube.com/watch?v=g4A2eowd4Ho>
 Adds virtual sticky notes to webpages



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Display 3d. Word Clouds (e.g., Taggedo, Tagul, WordSift, Word It Out): <https://www.wordclouds.com/>



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4. Tactile/Kinesthetic Learners

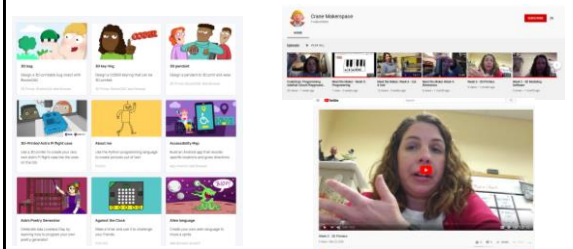
- Tactile/kinesthetic senses can be engaged in the learning process are role play, dramatization, cooperative games, simulations, creative movement and dance, multi-sensory activities, manipulatives and hands-on projects.



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April 23, 2020 Do 4a. Demonstration Videos Crane Makerspace, Tina Closser

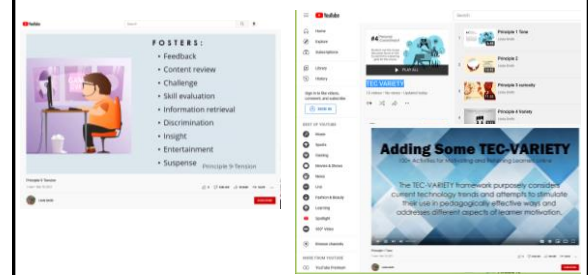
https://www.youtube.com/channel/UCbeWf49g7pZ01MB19T815w?view_as=subscriber
<https://sites.google.com/view/cranetech/home>
<https://projects.raspberrypi.org/en/projects>



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November 18, 2021 Do 4b. Student Explanatory Videos Linda Smith

<https://youtube.com/playlist?list=PLGodQ0qZ0AHBkIp7LE7SBjpyqVxVeHd4K>



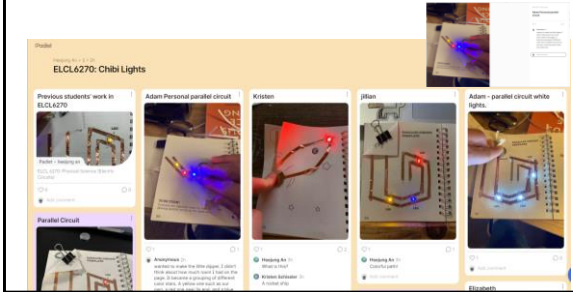
66

October 3, 2022

Do 4c. Post STEM Projects

Chilbi Lights, Heejung An, William Paterson University

<https://padlet.com/anh21/q93rbji88cstnd1>



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Poll #6: Which pedagogical model or framework do you prefer?

- a. TEC-VARIETY
- b. R2D2
- c. Neither
- d. Both
- e. I will try to create some unique combo of the two.



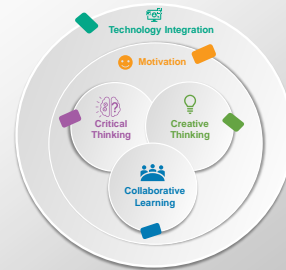
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Hyper-Engaging Framework #5
METC³

Educational Technology



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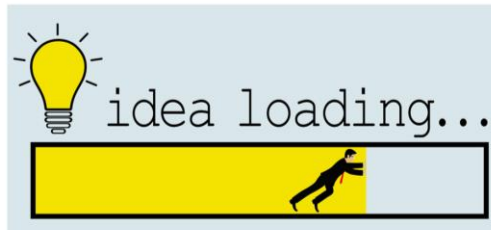
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MOTIVATION



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CREATIVE THINKING



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August 27, 2021
Brainstorming in Padlet
What is Education 3.0?
<https://padlet.com/basdogan2/yw19ct98styo1bw>

73

February 14, 2022
Questions for Guests in Jamboard
or an AMA (Ask Me Anything)
https://jamboard.google.com/d/1BW2GB3aVq035h5h1dNaMwOo_2RUcNTUuo7mr1SEig/viewer?f=2

Questions on OER (or the COL) for Sanjaya Mishra

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CRITICAL THINKING

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Online Book Reviews

- Have students read different books online and post reviews on forum or to Amazon or send to the author.
- Give each other feedback.

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September 4, 2021
Pros and Cons in Jamboard
https://jamboard.google.com/d/1K1jvX4iXa2RqE50H58laB_cw-LieoEuzMDDFJ88eP00/viewer?f=15

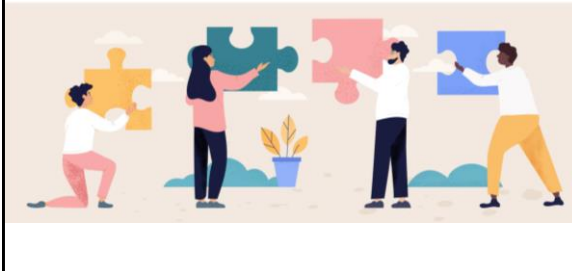
#7. What did you learn last week about R2D2 and TEC-VARIETY?

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September 4, 2021
Venn Diagrams in Jamboard
<https://jamboard.google.com/d/1uf5h20JdrciFV105qha1XuGCLQ3xP-mIGPvF7kdjKA4/viewer?f=5>

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COLLABORATION



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September 24, 2020

Breakout Rooms

How Do You Make Zoom Breakout Rooms Less Boring?, Expectations, Share a link, Introductions

Bonni Stachowiak (Columnist), Ed Surge

<https://www.edsurge.com/news/2020-09-24-how-do-you-make-zoom-breakout-rooms-less-boring>



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February 7, 2022 Reflection Team Activities in Jamboard

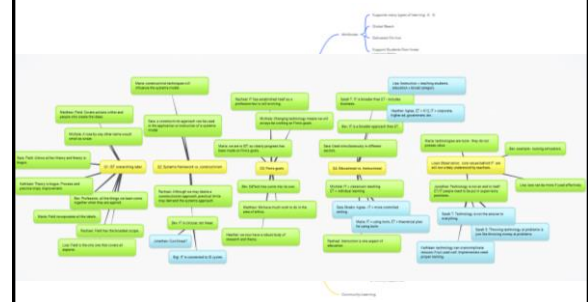
<https://jamboard.google.com/d/1XloXikFNuJC8vYgZqYhd6N73NZQ8cY60Fc8KqeY7TneU/viewer?l=6>



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February 27, 2022 Discussion Recap in Mindmeister

<https://www.mindmeister.com/map/2198250344?t=ZX2d0zv6qQ>



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Hyper-Engaging Framework #6 The World is Open: How Web Technology Is Revolutionizing Education

TEN OPENERS: (WE-ALL-LEARN)

1. Web Searching in the World of E-Books
2. E-Learning and Blended Learning
3. Availability of Open Source and Free Software
4. Leveraged Resources and OpenCourseWare
5. Learning Object Repositories and Portals
6. Learner Participation in Open Information Communities
7. Electronic Collaboration
8. Alternate Reality Learning
9. Real-Time Mobility and Portability
10. Networks of Personalized Learning

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The World is Wide Open! (South University of Science and Technology of China, Wednesday June 10, 2015)



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Poll: How many ideas did you get from this talk now?

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.



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Chat Window Sharing:
Three Words from this Session...?
 e.g., "I am happy!" and...
 "minions are happy!"



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We are entering a jumping off point...



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Remember...
"I cannot do this alone."

"I cannot do this alone."
 "I cannot do this alone."
 "I cannot do this alone."



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Any Questions or Comments?

Slides at: **TrainingShare.com**
 (go to "Archived Talks")

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

Papers: PublicationShare.com

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Motivating and
 Supporting Online
 Learners



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