### **Technology-Enhanced Learning:**

**Popular Frameworks for Powerful Learning** 

**Curtis J. Bonk, IST Professor Indiana University** 

cjbonk@indiana.edu; http://curtbonk.com/



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#### Opening Activity #1:

Type Answer in the Chat Window: What is your favorite online learning activity?



2

## Opening Activity #2:

Type Answer in the Chat Window: What is your favorite type of learning technology today...?



#### Poll #1. Warm-up question: How are you today?

- A. I feel so great, I could be superwoman and
- superman. B. I feel really good, thank you.
- C. A little tired but still fine and ready to learn from this session.
- D.Not sure yet but I am glad to be here today in this webinar.
- E. Not fully here nor there since I have some personal issues that need to be sorted out.
- F. Overwhelmed and feeling like I am lost in a lost world.
- G.Other.

# Poll #2: 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.

Poll: 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.
- Yes many times and I am taking action (meeting people, reading more, attending webinars like this, etc.).
- Yes, 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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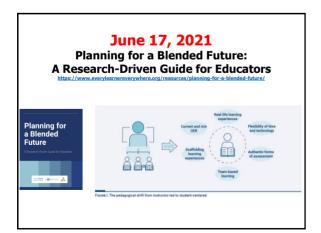


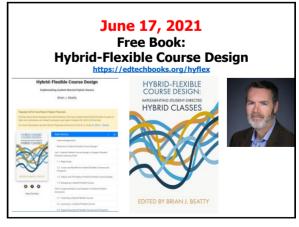




June 17, 2021
Planning for a Blended Future:
A Research-Driven Guide for Educators
https://www.everylearnereverywhere.org/resources/planning-for-a-blended-future/

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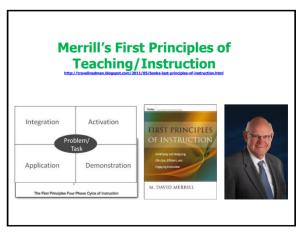


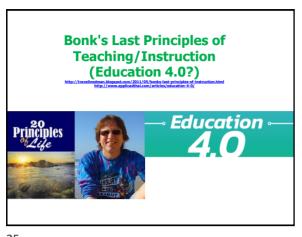


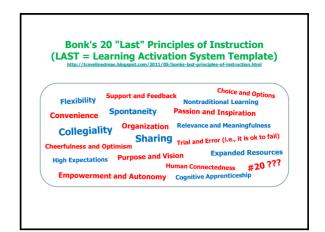


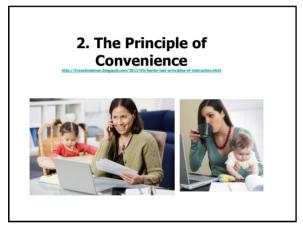


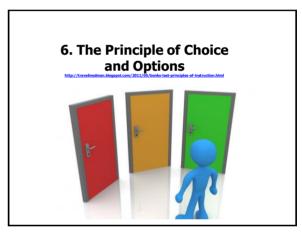












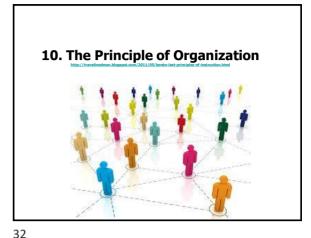
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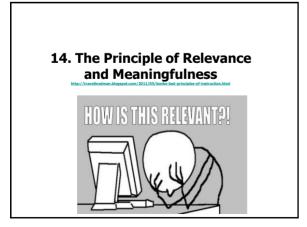


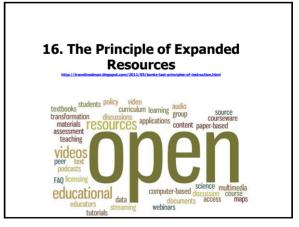




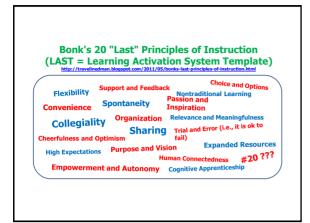


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Education 3.0...Education 20/20





"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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Poll #3:

Which topic are you most interested in fostering or learning about?

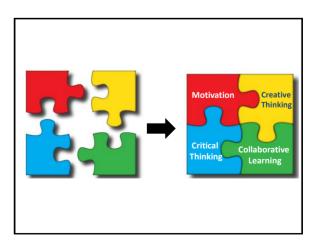
A. Creative thinking online

**B.**Critical thinking online

C. Collaborative learning and teamwork online

**D.Motivation** 

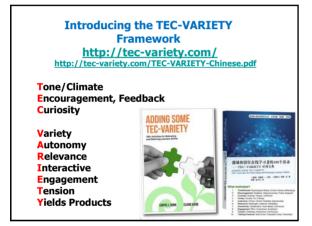




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September 2022 **Commonwealth of Learning** Khoo, E., & Bonk, C. J. (2022). Motivating and Supporting Online Learners. Burnaby, BC, Canada: Commonwealth of Learning. Free book available: http://hdl.handle.net/11599/4481 and free course available: https://colcommons.org/welcome/coursedetails/8; https://www.colvee.org/ Motivating and Supporting Online Learners

45



**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.

46

- 8. Provide immediate feedback, advance organizers.
- 9. Show intensity, enthusiasm, interest, minimize anxiety.
- 10. Make content personal, concrete, familiar.





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## **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

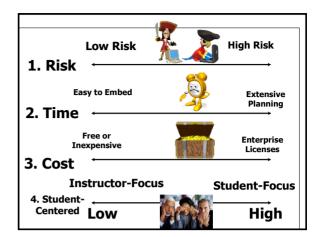
(i.e., it emerges from needs, inner strivings, and personal curiosity for growth)

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



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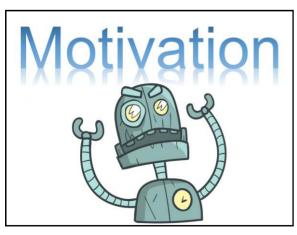


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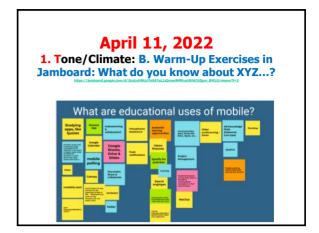
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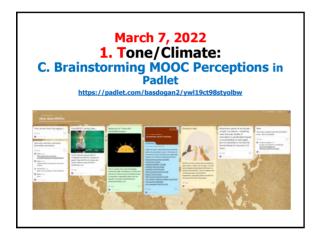




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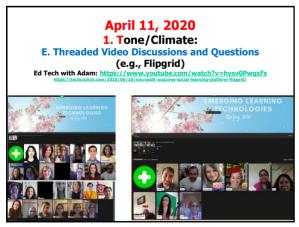


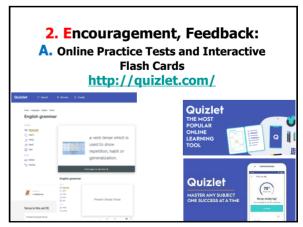




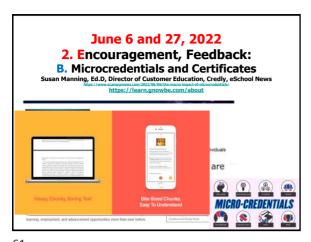


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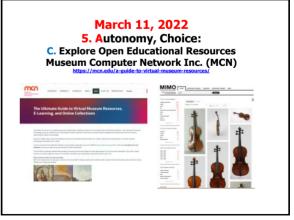




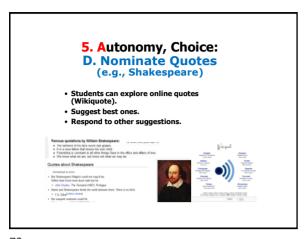


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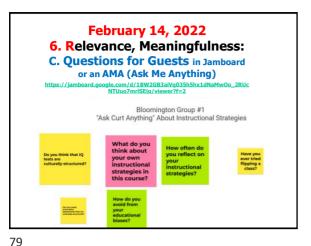


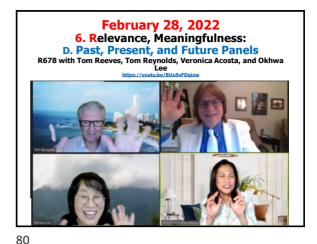
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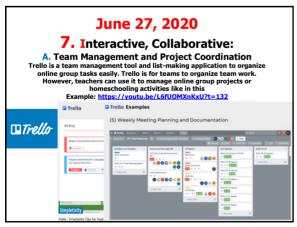


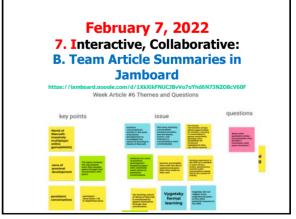


**Pedagogical Uses of Shared Online Videos** 

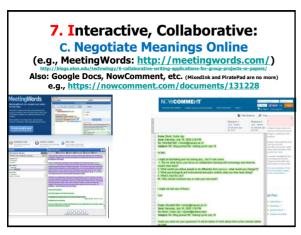
- 1. Watch and write review papers
- 2. Watch and look for themes or common issues
- 3. Draft educational change models, frameworks, or
- 4. Interview prior participants
- 5. Draft mini-chapters based on episodes into a book
- 6. Write future trends papers
- 7. Remix episodes
- 8. Tag, rank or categorize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

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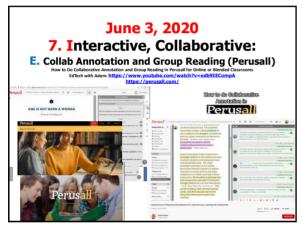




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April 11, 2022

8. Engagement, Involvement: A. Embedding Links (i.e., ThingLink)

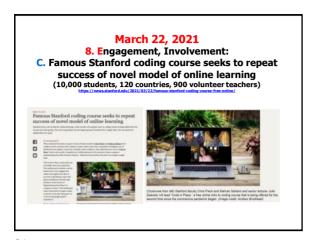
(360 instructional video, teaching some experiments in an advanced science lab.) https://www.thinglink.com/mediacard/1264679527141867522

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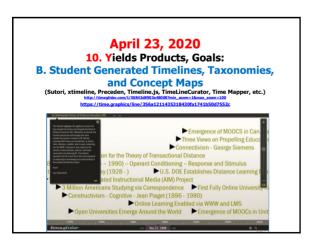
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10. Yielding Products:

A. Class Project: Video, Podcast Show,
Documentary, Website, Animation, Song, etc.
https://app.animaker.com/animo/2hishofts/aput/8564/7-bhareide-view/s/7c.15560Ht2.gut/83284

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**MOTIVATION MOTIVATION MOTIVATION** MOTIVATION MOTIVATION

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November 18, 2021 **TEC VARIETY** 10 Explanatory Videos, Linda Smith

100 99



Poll #4: Any light bulbs going off in you head so far? a. Yes definitely...many of them...pop...pop...pop! b. Yes, several times. c. Yes maybe! d. Not yet (but hopefully soon...) e. Nope. Darn it my brain is not working today. f. There's no hope with this idiot presenting.

102 101







1. Auditory or Verbal Learners Auditory and verbal learners prefer words, spoken or written explanations.

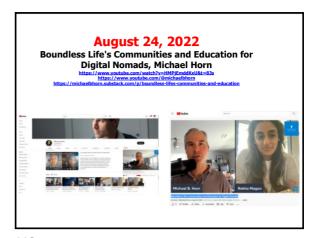
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**November 20, 2022** 10 Educational Podcasts (You Need To Listen To) Listen and Learn: The 40 Best **Educational Podcasts in 2022** 

108 107









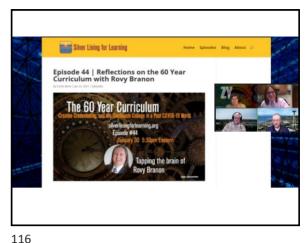
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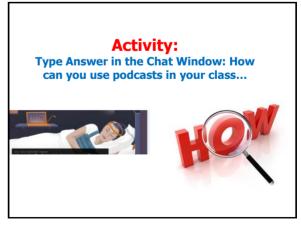






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#### **Pedagogical Uses of Podcasts**

- 1. Replace some course readings.
- 2. Podcast reenactments.
- 3. Use of podcasts to back up different sides of debates or to start debates.
- 4. Remix episodes and explore themes and common issues.
- 5. Support asynchronous discussion.
- 6. Add multimedia component to student papers.
- 7. Interview the podcast hosts and guests.
  8. Identify new discoveries and trends in the field.
- 9. Favorite podcast show competitions.
- 10.Supplement class lectures or presentations.

## **Activity:** Type Answer in the Chat Window: What are the benefits of using podcasts in your class...



121 122

#### **Pedagogical Benefits of Podcasts** (Palenque, 2016, Journal of Instructional Research)

- 1. Promotes active listening.
- 2. Expands vocabulary.
- 3. Support active, social, and creative aspects of learning.
- 4. Provides opportunities for reflection.
- 5. Aligns with self-paced and independent learning.
- 6. Helps chunk learning and connect to what you know.
- 7. Fosters audience awareness and social cognition
- 8. Potential for audio feedback to learners.
- 9. Provides alternative to reading.
- 10.Fosters planning skills.

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



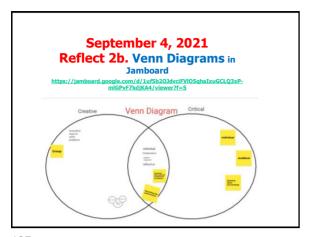


Reflect 2a. Big Issue Reflections and What-If Reflections

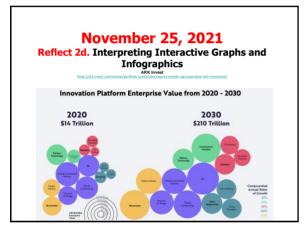
(Big Questions Online (BQO)) (e.g., Can a Living Creature Be as Big as a Galaxy?)

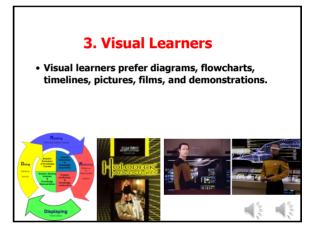
Forestry & Society
Forests of the U.S.--Questions

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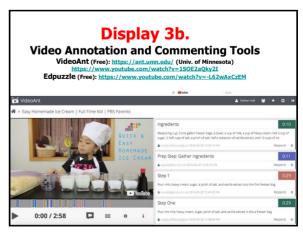




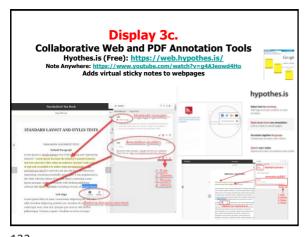


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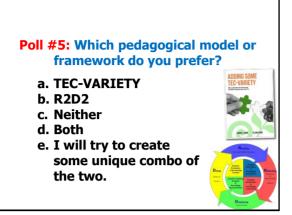
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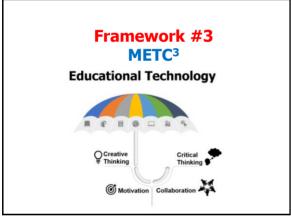
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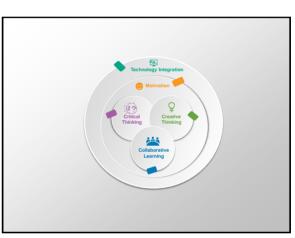
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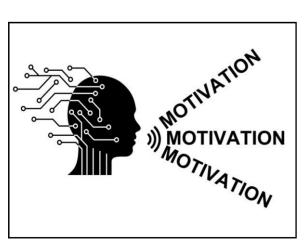


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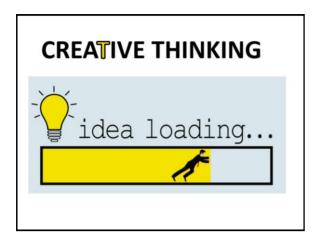


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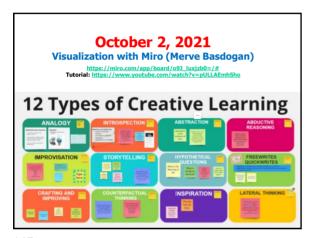


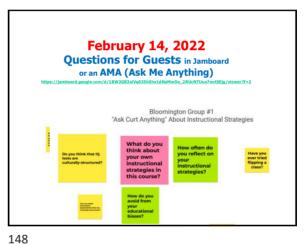


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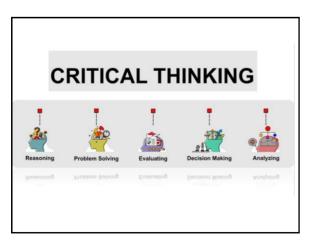






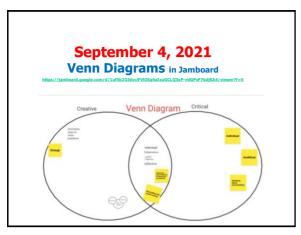


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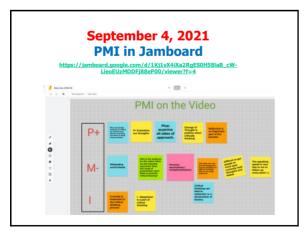


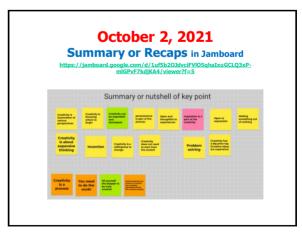






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September 24, 2020
Breakout Rooms
How Do You Make Zoom Breakout Rooms Less
Boring?, Expections, Share a link, Introductions
Boni Stachowiak (Columbia) the Surge
Brook of the Market Annual Ann

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February 7, 2022

Reflection Team Activities in Jamboard

https://jamboard.google.com/d/JXXXIATRUCIBV/g/ZYTM6RYZARZGBC/65FctRigerYTm6U/viewer/T=6

Week Article #4 Thermes and Questions

Useus Key Points

Google
Flav

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February 27, 2022
Discussion Recap in Mindmeister

https://www.mindmeister.com/map/2198250447t~ZX260x60

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**Poll #6:** Will instructors be replaced by shared online video and audio?

- a. Definitely not!
- b. I will wait and see...
- c. Perhaps some instructors might.
- d. Most entry level instructors will likely be replaced.
- e. All instructors should fear losing their jobs.

Poll #7: Will instructors be replaced by ChatGPT and Generative AI?

- a. Definitely not!
- b. I will wait and see...
- c. Perhaps some instructors might.
- d. Most entry level instructors will likely be replaced.
- e. All instructors should fear losing their jobs.

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**Preface: Before Making Impact** *Curtis J. Bonk and Meina Zhu, USA* 





163 164



**Transformative Teaching Around the World** 





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TRANSFORMATIVE TEACHING ACUND THE WORLD RESIDENCE TEACHING ACUND THE WORLD THE WO

Poll #8: 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.



167 168



Reflection: How have you addressed diversity, equity, and inclusion in the past?

Presence of differences

Presence of di

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Think Equity (and social justice, multicultural education, and culturally responsive education)...

Hammond, Z. (2017). Distinctions of equity chart [PDP file]. https://crtantibelevin.com/sp-content/uploads/hammond\_File/bistictions-of-Equity-Chart.edf

| Distinctions of Equity Chart.edf
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Think Inclusiveness...
Carnegie Mellon University:
Strategies for Inclusive Teaching
https://www.cmu.edu/use/university/suspensions/leasuremont/male/strategies/index.html

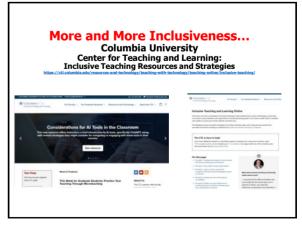
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More Inclusiveness...
University of Michigan:
Inclusive Teaching Resources and Strategies
https://cit.muich.oe/do/muichuidural-teaching/inclusive-teaching-strategies

Inclusive Teaching Resources and Strategies

Inclusive Teaching Resources

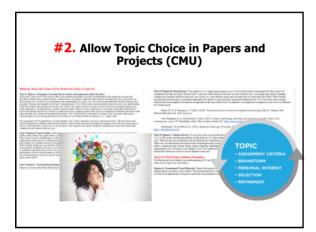
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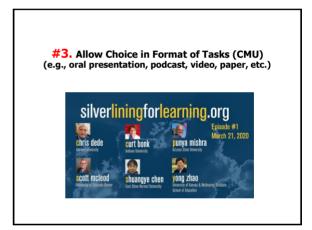


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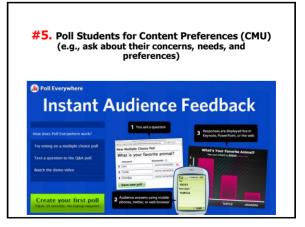


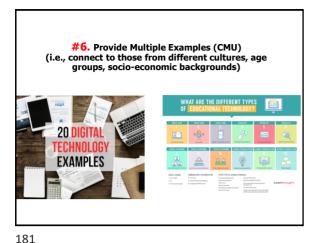


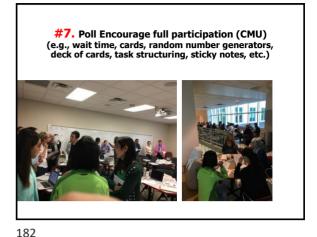




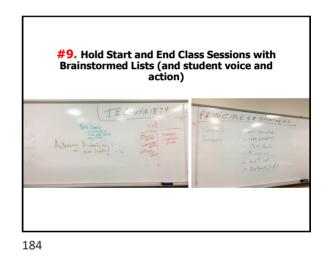






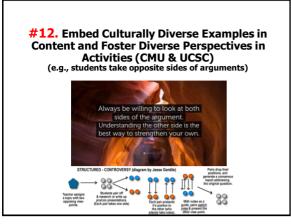




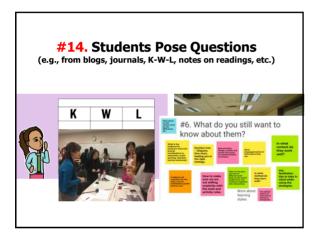


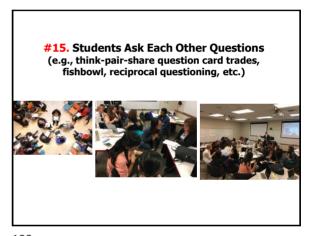












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#19. Make Use Asynchronous and Synchronous Options (e.g., record any instructor lectures and guest visits) (Columbia University)

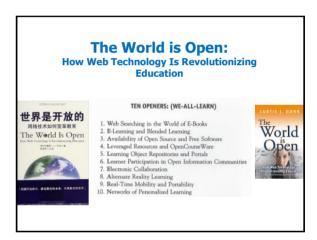
asynchronous:

Discussion boards, quizes, polis, email, digital documents, recorded audio or video, recorded slides with narration, self-paced courses.

Virtual classroom, live presentations, live text char, instant messaging, live audio or video chat, live quizzes, live polling

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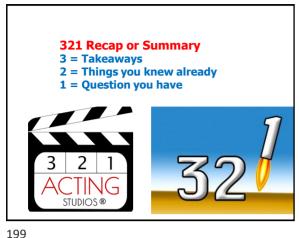


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**Chat Window Sharing:** Three Words from this Session...? e.g., "I am happy!" and... "minions are happy!"

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