#### Blend but Don't Break:

Introducing the Education 20/20, the TEC-VARIETY, AND R2D2 Models for Motivation and Engagement

Curtis J. Bonk, IST Professor Indiana University

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







# Poll #2: Have you been to Bloomington, Indiana or an Indiana University campus?

March 26, 2020

What the World Needs Now is Love

Students at the Boston Conservatory at Berklee created a social distancing rendition of 'What the World Needs Now is Love'

https://www.youtube.com/watch?v=qv7jI5ACHCw 2:33 (video): http://curtbonk.com/wtwnn.html

- a. Yes many times and I loved it!
- b. Yes once and it is great...I want to go back.
- c. Yes and it is so-so. Probably not coming back.
- d. Not sure.
- e. No, but I have been to the USA.
- f. No, but I really want to visit.
- g. No, and I prefer it that way. Indiana us way too boring for me.



## Poll #1: Have you ever been to North America?

- a. Yes many times.
- b. Yes, once or twice.
- c. No, but I want to go.
- d. No, I don't understand the language.
- e. No. And I am not going to go.



3

### Poll #3: Have you seen Dr. Bonk speak before?

- a. Yes more than once.
- b. Yes once.
- c. Not sure.
- d. No, but I am here now.
- e. No, and I prefer it that way. He's rather boring





Poll #4: Have you ever taught a blended course (face-to-face and online)?

- 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.

5 6

# Poll #5: Have you ever taught a fully online course?

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



Part I. Education 20/20



**November 20, 2020** 

Many Texas families say remote learning isn't

working and they want it fixed

7

July 30, 2020

Disruptive Ecology:
The New Normal of Education in Post
COVID-19





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September 3, 2020 Screen time guidelines:

DepEd sets number of hours on screen, depending on grade level Jaehwa Bernardo, ABS-CBN News



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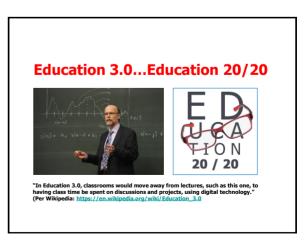






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17 18

# **Café Classroom and Café Connectedness**

Starbucks Your Classroom! Oskar Cymerman, Teaching Channel



19



Sterile, industrial-era rows aren't very attractive or motivating. ...I believe the "Starbucks" environment will promote that freedom and movement...Freedom is the key ingredient to social-emotional well-being and deeper learning. Rows and columns constrict. They hold and stifle.

# From Instructor as Credit Manager and Court Room Judge





20

#### 1. Instructor as Counselor







21 22

#### 3. Instructor as Conductor



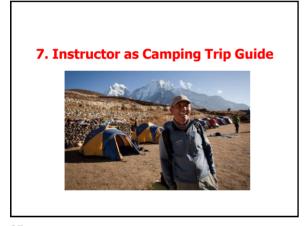
#### 4. Instructor as Course Ambassador



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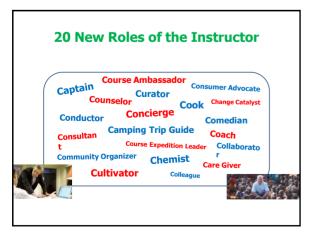






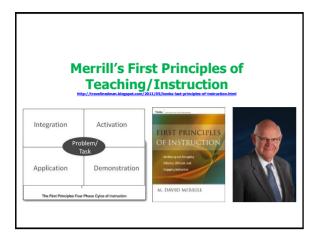


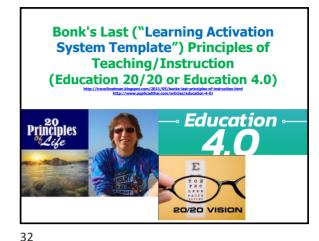
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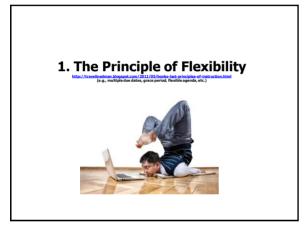


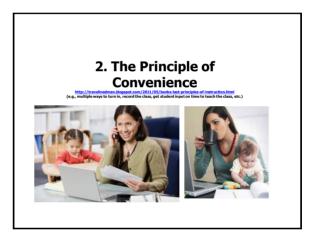


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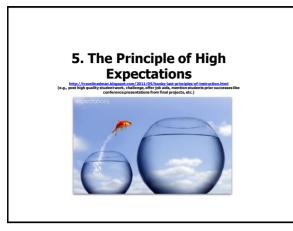


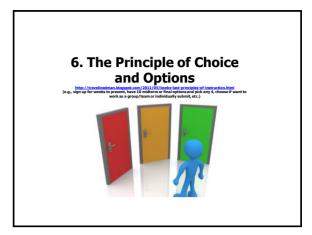
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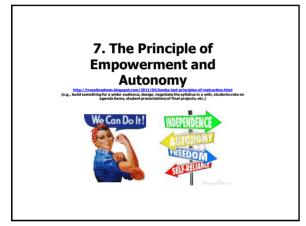


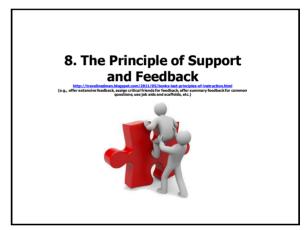


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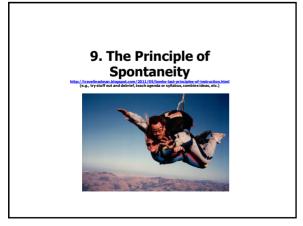


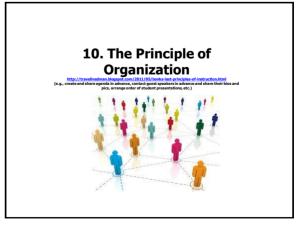




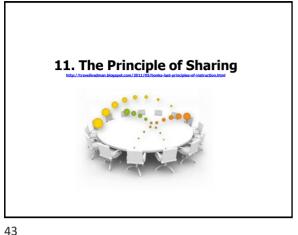


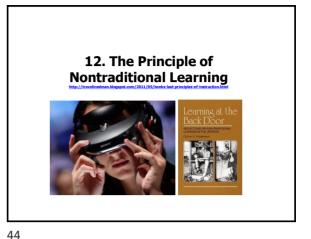
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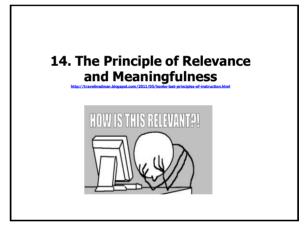


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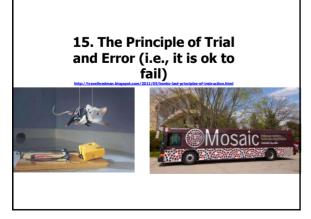


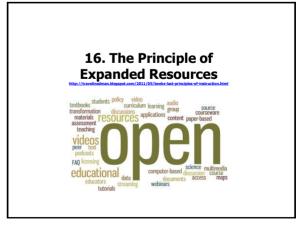




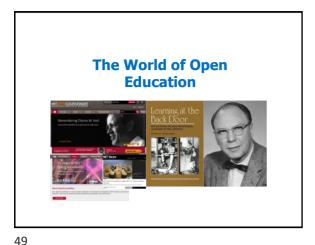


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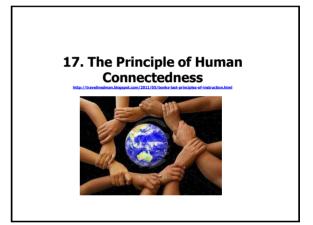


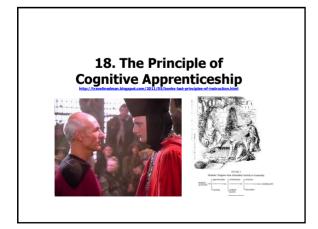
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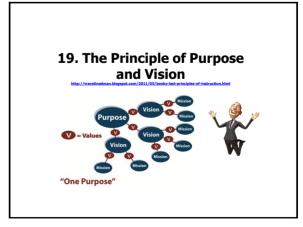














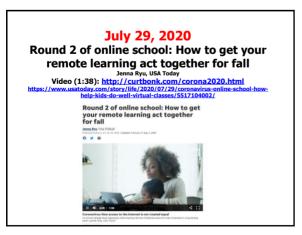




April 17, 2019

How to be a Better Online Teacher
Flower Darby, The Chronicle of Higher Education
https://www.chronicle.com/article/how-to-be-a-better-online-teacher/

57 58



July 23, 2020
6 ways to be more inclusive in a virtual classroom
Flower Darby, Chronicle of HE
https://www.chronicle.com/article/fs-quick-ways-to-be-more-inclusive-in-a-virtual-classroom

1. Provide course content in 2 formats.

2. Allow options on how students complete assignments.

3. Give choice in final project.

4. Reach out to help students.

5. Use picture to depict how feeling.

59 60

#### August 24, 2020

#### **Transitioning to Blended Curt Bonk**

- 1. Get to know your students!
- 2. Don't apologize too often.
- 3. Don't treat online as inferior.
- 4. Welcome everyone in with enthusiasm.
- 5. Different format but same students.
- 6. Provide scaffolds, tutorials, and other supports.
- 7. Create short authentic videos.
- 8. Foster volunteerism.
- 9. Communicate clearly and a lot.



August 24, 2020

**Transitioning to Blended** (Various Authors)

- 1. Model positive attitude.
- 2. Provide students with checklists.
- 3. Set routines (stick to a schedule).
- 4. Offer flexibility.
- 5. Give learning environment advice.
- 6. Survey about technology at home.
- 7. Explain purpose and debrief and reflect.
- 8. Encourage real world learning.



61

62

64

#### August 2015

Best Practices in K-12 Online and Hybrid Courses Hanover Research

- 1. Start slowly: fun, easy, and supportive.
- 2. Focus on engagement.
- 3. Require student reflections
- 4. Establish norms.
- 5. Make expectations clear.
- 6. Respond to students in a timely manner.
- 7. Grade timely.
- 8. Create challenging assignments.



July 27, 2020

**Online Classroom Management: Five Tips for Teachers in Transition** Jeff Lisciandrello, Room To Discover https://inelearninglab.com/

- 1. Test the technology.
- 2. Involve students in establishing norms.
- 3. Emphasize engagement—polls, breakouts, explore, etc.
- 4. Connect with small teams of students
- 5. Proceed slowly in comfort zone.



63

#### June 23, 2020

**Learning is More Synchronous** Turns Out You Can Build Community in a

Zoom Classroom
Rachel Toor, The Chronicle of Higher Education

Turns Out You Can Build Community in a Zoom Classroom

November 10, 2020

**Learning is More Synchronous** 

'Telepresence' robots are making virtual school feel a little more like real school Jennifer Davis, The Washington Post





65 66







Part II:
Introducing the TEC-VARIETY Model
<a href="http://tec-variety.com/">http://tec-variety.com/</a>
http://tec-variety.com/TEC-VARIETY-Chinese.pdf

Tone/Climate
Encouragement, Feedback
Curiosity

Variety
Autonomy
Relevance
Interactive
Engagement
Tension
Yields Products

69 70

### Poll #6: Have you reflected on your teaching philosophy or approach during COVID-19?

- a. Yes many times and I am dramatically changing my philosophy statement.
- b. Yes many times and I am taking action (meeting people, reading more, attending webinars like this, etc.).
- c. 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.

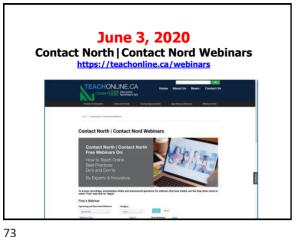


Poll #7: Have you even been to an elearning or online learning conference, institute, or summit?

- a. Yes many times.
- b. Yes, once or twice.
- c. No, but I want to go.
- d. No. And I am not going to go.



71 72



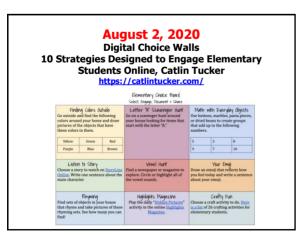




August 2, 2020 Catlin Tucker blog 10 Strategies Designed to Engage Elementary **Students Online** 8 Ideas Designed to Engage Students In Active Learning Online https://catlintucker.com/ 1. Create a wall in Padlet to share words with I 2. Create a virtual jigsaw activity. Do a scavenger hunt during videoconference 4. Digital choice walls Acrostic poerty.

76

75



**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.

77 78



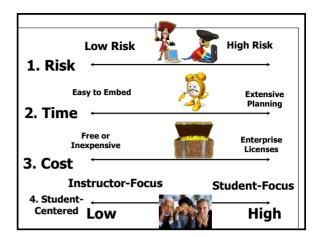
"...innate propensity to engage one's interests and exercise one's capabilities, and, in doing so, to seek out and master optimal challenges

(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.



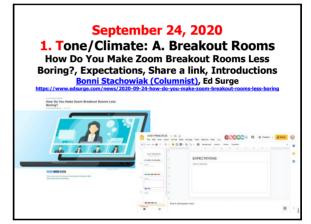
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2. Encouragement, Feedback:

A. Poll Everywhere, Zoom Polling, MicroPoll

Girls + data is a non-proft 501(c)(3) that hosts data camps, interactive workshops, and seminars where
different analytics tools are used to teach kids about the data life-cycle, from database to the dashboard.
The program culminates in a project that allows the participants to tell a story with data. To date, girls +
data has educated over 450 kids at 17 events across the nation.

Select as many a signly to your current stags in the Continuity of Care
Assessment talk

Select as many as apply to your current stags in the Continuity of Care
Assessment talk

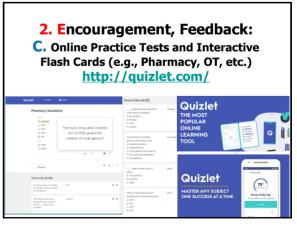
Likes unducted on participant
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Likes unducted on participant
Likes unducted the participant
Likes agent context.

Select as many as apply to your current stags in the Continuity of Care
Assessment talk

Likes unducted on participant
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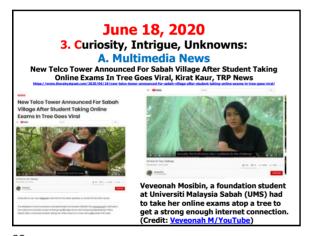




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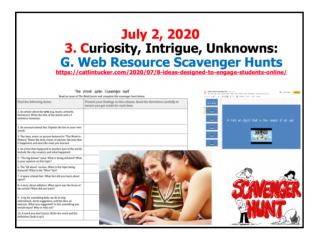








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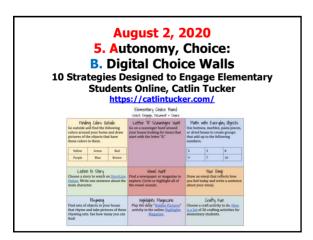






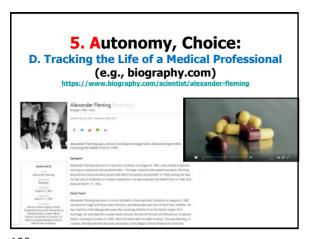
July 18, 2020 5. Autonomy, Choice: A. Enroll in a MOOC and Reflect (e.g., see Class Central) Coding Languages

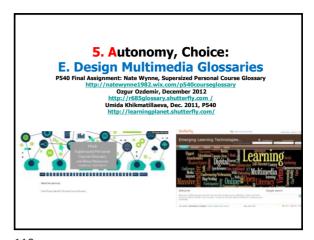
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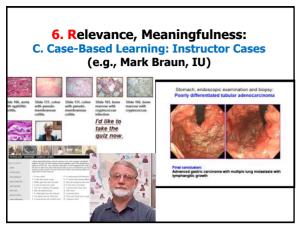


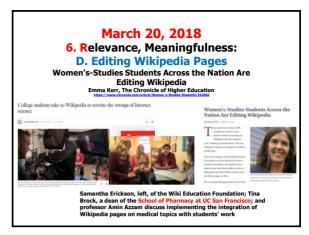
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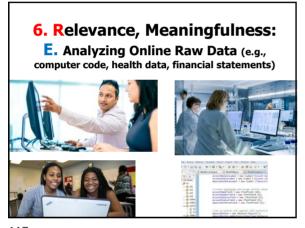




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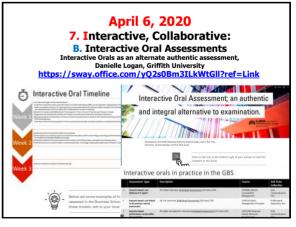




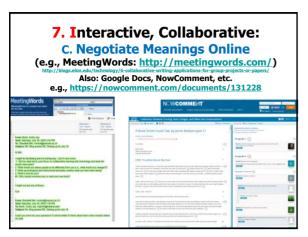


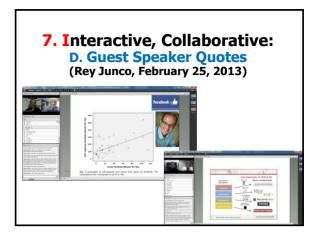
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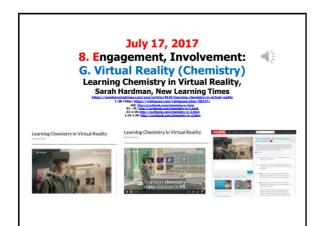






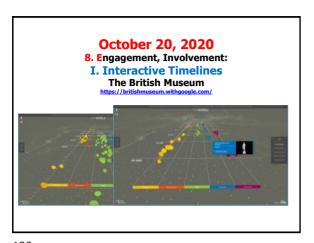
May 1, 2018 8. Engagement, Involvement: F. Augmented Reality (teachers) 3 ways districts can use AR and AI Justin Anglio, eSchool News When a teacher glances around ner classfroun, Lumino allows use use real-time analytics (in the form of icons) floating directly above each student's head. The teacher can glance directly at a student o "click" on a student's icon to see more detailed information about where and how that student might be struggling.

130





131 132



May 28, 2019

8. Engagement, Involvement:

J. Virtual Reality Comes to the Classroom
Beth McMurtrie, The Chronicle of Higher Education
https://www.dhronkle.com/interactives/20199528-immersivefed

Using a special recording system, Hamilton
College created a virtual-reality experience
for students in a conducting dass. Heather
Buchman, a music professor, first recorded
a performance using 3-D audio and video.
(Andrew Grolf)

Students later practiced conducting the
virtual orchestra by wearing a special
headset through which the sound of the
orchestra changes as they turn their head.
(Ben Salzman)

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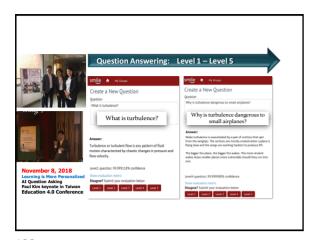


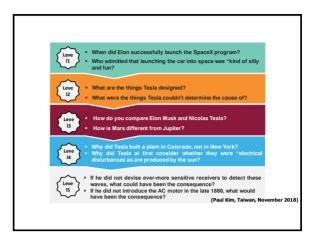
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April 29, 2020

10. Yields Products, Goals:

F. Wikibook Projects and Chapters
R678, Amanda Zwirecki and Ashia Williams

https://en.wikibooks.org/w/index.shp?title=Web.2.0\_and\_Emerging\_Learning\_Technologie/Wolfies\_Learning\_Communities

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Poll #8: Any light bulbs going off in you head so far?

- a. Yes definitely...many of them...pop...pop!
- b. Yes, several times.
- c. Yes maybe!

146

- 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.



147 148

**Poll #9:** Which motivational principle do you see as the most crucial online?

- 1. Tone/Climate
- 2. Encouragement, Feedback
- 3. Curiosity
- 4. Variety

145

- 5. Autonomy
- 6. Relevance 7. Interactive
- 8. Engagement
- 9. Tension
- **10.Yields Products**
- ADDING SOME TEC-VARIETY TECHNOLOGY

hat motivates?

1. Tone/Climate: Psychological Safety, Comfort, Sense of Belonging.

2. Encouragement: Feedback, Responsiveness, Praise, Supports.

3. Curiosity: Sucrisie. Intrinse. Uningene.

- Autonomy: Choice, Control, Plexibity, Opportunities
   Relevance: Meaningful, Authentic, Interesting
   Interactivity: Collaborative, Team-Based, Community
   Engagement: Effort, Involvement, Investment
- Yielding Products: Goal Driven, Purposetul Vision, Ownership

Part III: The R2D2 Model: Read, Reflect, Display, Do...

Curtis J. Bonk | Ke Zhang | Reduction | Reading | Reflecting | Reduction | Reading | Reflecting | Reflecting | Research | Reading | Reflecting | Reflecting | Research | Reading | Reflecting | Research | Rese

149 150



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

152



Read 1b. Reading and Reviewing articles in **Open Access Science Journals** (e.g., DOAJ—Directory of Open Access Journals) https://doaj.org/ Open access journals for kids: https://so open access journals for kids. ciencejournalforkids.org/about-us.html https://kids.frontiersin.org/ sciencejournalforkids.org/about-us.html https://sc

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Read 1f. Reading from Open Access Journals (e.g., DOA)—Directory of Open Access Journals)
https://doaj.org/

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

- What are some major species of watern forests?
Describe them. What are some major species of watern forests?
Describe them. What are some major species of watern forests?
Describe them. What are some major species of watern forests?
Describe them. What are some major species of watern forests?
Describe them. What are them some major species of watern forests?
Describe them. What are them issues of concerns?

- What are them issues of concerns?

- What are them issues of concerns?

- What are the major logs with determined 1S forest the Government of Bangladesh has declared some areas as "Protected Areas".

What are the challenges of conservation of forests? Discuss

161 162



Reflect 2c. Interpreting Interactive Graphs and Infographics

How much rainforest in that chocolate bar?

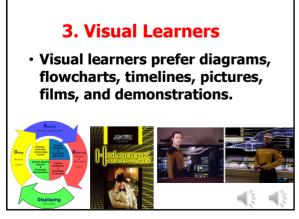
Tech billionaire announces \$250 million in cancer immunotherapy funding, Days of the property of the

163



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

165 166



Display 3a. More Royalty Free Images Medical Graphics in Creative Commons

Inter/Invov.medicalgraphics.de/en/free-pictures.html

Free medical illustrations under Creative Commons Letters

Free medical illustrations un

167 168







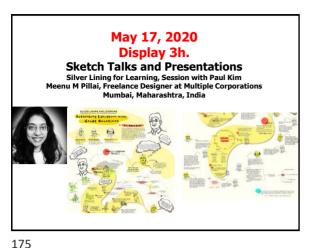
July 9, 2020 Reflect 2e. Collaborative Annotations and **Discussions/Group Reading** Teachers can insert a two-column chart into a Google Document then copy and paste text in the left-hand column. Students can highlight keywords and phrases in the text and capture their annotations in the right-hand column. B / U A - co II II II II II

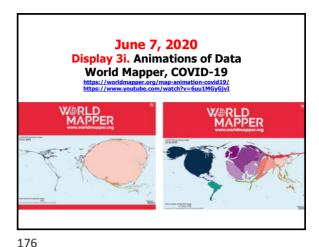
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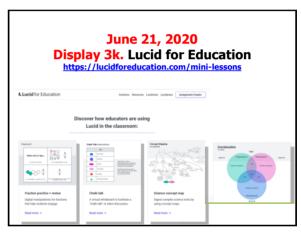


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**March 2020 Display 3j.** Visual Depictions of Science Migrations in Motion MIGRATIONS IN MOTION

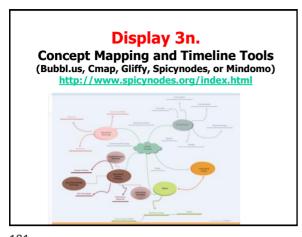


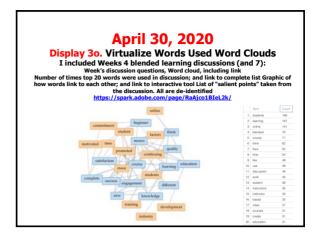
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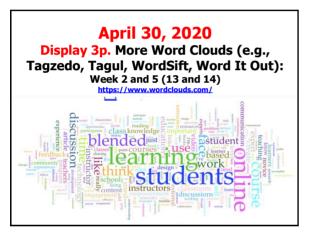
June 22, 2020 **Display 3L. Animations of Data** Global Deaths Due to Various Causes and COVID-19 By Tony Nickonchuk



179 180

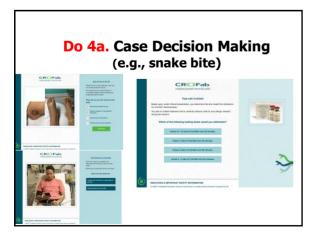


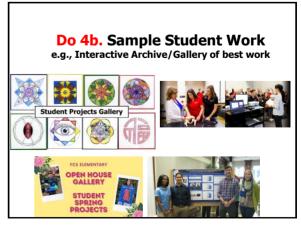






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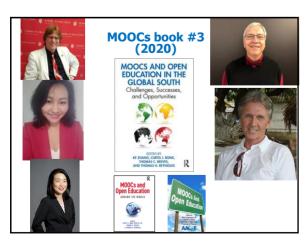








189 190



Poll #10: What are you most concerned about then teaching online?

a.Access issues
b.Personalization
issues
c. Engagement issues
d.Nothing...everything
is running smooth

191 192

### Poll 11: 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 12: 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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### Poll #13: Are you excited to try anything out that you heard today?

- a. Yes definitely...many of them...
- b. Yes, several of them.
- c. Yes maybe one!
- d. Not yet (but hopefully soon...)
- e. Nope. My brain is simply not working today.
- f. No...I am having Internet connection issues.



# Poll #14: Does all this stuff that you heard give you a headache?

- a. Yes, but I am still excited to try things out.
- b. Yes, and I need some medicine and a break.
- c. Not sure.

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- d. No, let's go all day.
- e. No, let's go another hour.
- f. No, it was just right.



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### Poll 15: Would you attend a Part 2 follow-up session?

- a. Definitely, Definitely, Definitely...
- b. Probably, Probably, Probably,
- c. Maybe, Maybe, Maybe
- d. You got to be kidding...NO!



Poll #16: As a result of this session, are you going to be a more effective and more confident online instructor?

- a. Definitely, Definitely...
- b. Probably, Probably,
- c. Maybe, Maybe, Maybe
- d. You got to be kidding...NO!



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#### The World is Open for you now...!



We are entering a jumping off point...



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Things are heating up!



Education 20/20 and a Learning Revolution is coming within reach!

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Remember...

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



Any Questions or Comments?

Slides at: TrainingShare.com
Papers: PublicationShare.com
Free book: http://tec-variety.com/

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