Indiana Youth Institute: Learning Through Change
Remote Learning Strategies: Introducing the TEC-VARIETY and R2D2 Models

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May 27, 2020
Back to school? 1 in 5 teachers are unlikely to return to reopened classrooms this fall, poll says
Susan Page, USA Today

July 8, 2020
Yes, Your Zoom Teaching Can Be First-Rate
Stephen Hersh, Inside Higher Ed

Bonk’s 20 “Last” Principles of Instruction
(LAST = Learning Activation System Template)
http://travelinedman.blogspot.com/2011/05/bonks-last-principles-of-instruction.html

Convenience
Cheerfulness and Optimism
Support and Feedback
Nontraditional Learning
Choice and Options

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.
Make Commitments:
Stop and Share in Chat Window:
Which principle(s) of TEC-VARIETY will you use?
http://tec-variety.com/

Tone/Climate
Encouragement, Feedback
Curiosity

Variety
Autonomy
Relevance
Interactive
Engagement
Tension
Yields Products

1. Tone/Climate:
   A. Instructor Course Introductions

2. Encouragement, Feedback:
   A. Online Practice Tests and Interactive Flash Cards (e.g., Pharmacy, OT, etc.)
   http://quizlet.com/

   July 14, 2020
   2. Encouragement, Feedback:
      B. Virtual Sharing Walls
      e.g., Padlet (A collaboration and discussion board)
      https://padlet.com/samarast/urel07b3nwubivel

3. Curiosity, Intrigue, Unknowns:
   A. New Discoveries
   ‘Tiny bug slayer’: Meet the pint-size ancient ancestor of dinosaurs discovered in Madagascar
   Ryan W. Miller, USA Today
   Video: 53 seconds

4. Variety, Novelty, Fun, Fantasy:
   A. Kahoot!
   https://getkahoot.com/

Fall 2018 R546
5. Autonomy, Choice:
A. Tracking the Life of a Computer Scientist (e.g., bio.com)
http://www.biography.com/people/steve-jobs-9354805
http://www.biography.com/people/ada-lovelace-20825323
http://www.biography.com/scientist/alexander-fleming

April 11, 2020
6. Relevance, Meaningfulness:
A. Threaded Video Discussions and Questions (e.g., Flipgrid)
Ed Tech with Adam: https://www.youtube.com/watch?v=hysdPwqjFS
https://techcrunch.com/2018/06/18/microsoft-acquires-social-learning-platform-flipgrid/

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/l6fU0MxK4U7t=132

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

May 11, 2020
9. Tension, Challenge, Controversy, etc.:
A. What is smileUP & How to use it?
SMILE, Stanford
https://www.youtube.com/watch?v=pblU8s5ALWo

10. Yielding Products:
A. Class Project: Video, Podcast Show, Documentary, Website, Animation, Song, etc.
https://www.youtube.com/watch?v=pblU8s5ALWo
Part II: The R2D2 Model: Read, Reflect, Display, Do...

Read 1a. Storyline Online is a free literacy platform where kids can listen to stories (where actors read to children). [https://www.youtube.com/user/StorylineOnline](https://www.youtube.com/user/StorylineOnline)

Reflect 2a. Listen to Podcasts (e.g., Educational: [https://discoverpods.com/educational-podcasts/](https://discoverpods.com/educational-podcasts/))

Display 3a. Animated Videos: Animated COVID-19 prevention video goes viral
Mandy Erickson, SCOPE Stanford Medicine
[https://www.youtube.com/watch?v=UcFDdfueQRg](https://www.youtube.com/watch?v=UcFDdfueQRg)

Display 3b. Animations of Data
World Mapper, COVID-19
[https://worldmapper.org/map-animation-covid19/](https://worldmapper.org/map-animation-covid19/)
[https://www.youtube.com/watch?v=6uu1MGyGjvI](https://www.youtube.com/watch?v=6uu1MGyGjvI)

Do 4a. Sample Student Work
e.g., Interactive Archive/Gallery of best work