

**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

<https://www.usatoday.com/story/news/education/2020/05/21/coronavirus-schools-teachers-poll-opens-parents-fall-online/5254729002/>

NEWS STORY

Back to school? 1 in 5 teachers are unlikely to return to reopened classrooms this fall, poll says

Times Press (Columbia, SC)

Published: 10:52 a.m. ET May 21, 2020 / Updated 10:52 a.m. ET May 21, 2020



What parents and teachers say

● Parents ● Teachers

Teachers are working harder

71%

Teachers are having a harder time doing their job

83%

I am worried about the children right now

60%

Distance learning is causing the children to fall behind

46%

The children will eventually be able to make up any lost ground

73%

Public teachers are paid fairly

40%

Schools in my area are likely to reopen in the fall

63%

86%

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July 8, 2020

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

<https://www.insidehighered.com/advice/2020/07/08/faculty-member-and-former-ad-executive-offers-six-steps-improving-teaching-com>

Yes, Your Zoom Teaching Can Be First-Rate



lines six steps for how you

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20 New Roles of the Instructor

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



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

<http://travelinman.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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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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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


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



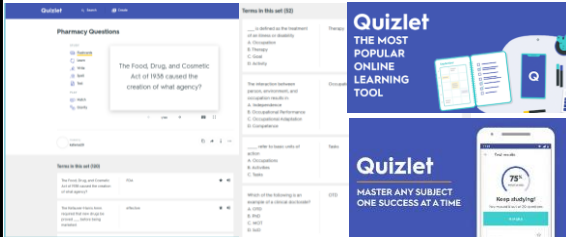
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1. Tone/Climate:
A. Instructor Course Introductions



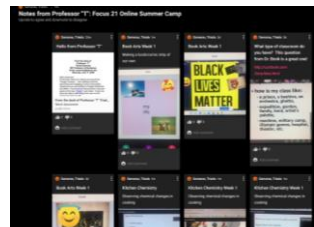
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2. Encouragement, Feedback:
A. Online Practice Tests and Interactive Flash Cards (e.g., Pharmacy, OT, etc.)
<http://quizlet.com/>



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



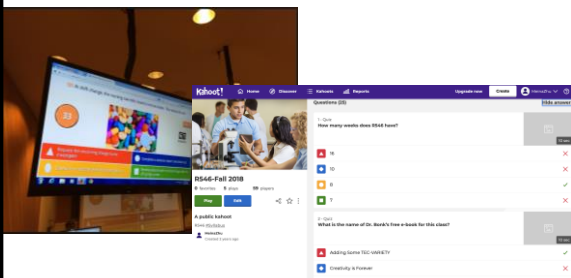
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July 7, 2020
3. Curiosity, Intrigue, Unknowns:
A. New Discoveries
'Tiny bug slayer': Meet the pint-size ancient ancestor of dinosaurs discovered in Madagascar
 Ryan W. Miller, USA Today
<https://www.usatoday.com/story/news/science/2020/07/07/tempanon-tiny-ancestor-dinosaur-5389925002/>
 Video: 53 seconds



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Fall 2018 R546
4. Variety, Novelty, Fun, Fantasy:
A. Kahoot!
<https://getkahoot.com/>



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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>
<https://www.biography.com/scientist/alexander-fleming>



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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=hysv0PwqsFs>
<https://techcrunch.com/2018/06/18/microsoft-acquires-social-learning-platform-flipgrid/>



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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

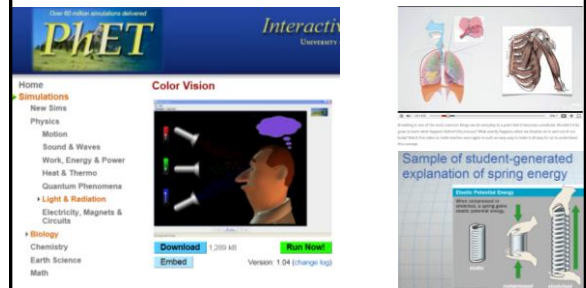
Example: <https://youtu.be/L6fUOMXnKxU?t=132>



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8. Engagement, Involvement: A. Interactive Labs and Simulations

<http://phet.colorado.edu/en/simulation/energy-skate-park>



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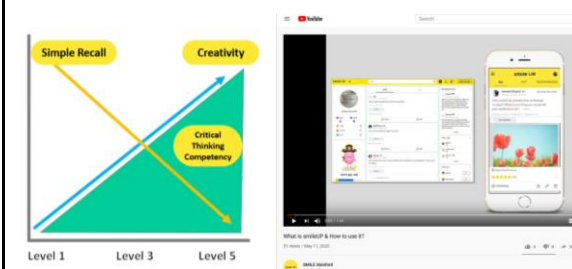
May 11, 2020

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:

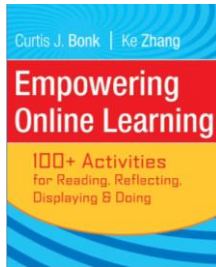
A. Class Project: Video, Podcast Show, Documentary, Website, Animation, Song, etc.

<https://app.animaker.com/animos/2h5b0Hz2gxU8J5x4/7shareid=view%2C2h5b0Hz2gxU8J5x4>



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



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



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Reflect 2a. Listen to Podcasts

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



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April 29, 2020

Display 3a. Animated Videos
Animated COVID-19 prevention video goes viral
Mandy Erickson, SCOPE Stanford Medicine
<https://scopeblog.stanford.edu/2020/04/29/animated-covid-19-prevention-video-goes-viral/>
<https://www.youtube.com/watch?v=UcFD8uGQ8g>

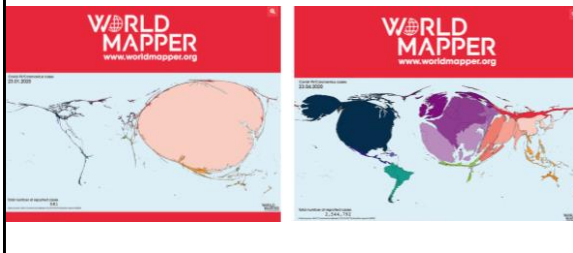


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June 7, 2020

Display 3b. Animations of Data World Mapper, COVID-19

<https://worldmapper.org/map-animation-covid19/>
<https://www.youtube.com/watch?v=6uu1MGyGjvI>



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Do 4a. Sample Student Work

e.g., Interactive Archive/Gallery of best work



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Any Questions or Comments?

Slides at: TrainingShare.com

Papers: PublicationShare.com

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



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