New Trends for Seamless Transition to Hybrid Learning in K-12: Introducing the TEC-VARIETY and R2D2 Models

Curtis J. Bonk, Professor
Indiana University
cjbonk@indiana.edu http://curtbonk.com/

August 22, 2020
Trend #1: Best Practice Examples and Supplemental Resources
Blended in Action; Raise Your Hand Texas

July 26, 2020
Educating All Learners
An alliance dedicated to equity for complex learners
https://www.educatingalllearners.org/
Resources and Guidance for Educators
https://www.educatingalllearners.org/for-educators
https://www.educatingalllearners.org/educator-resources

August 10 to September 13, 2020
Trend #2: Free Courses/MOOC Supplements
Learning to Learn Online
Contact North/Nord and Athabasca University
Video Intro: 3:02
http://contactnorth.ltlo.ca/

November 9, 2019
Greetings from Nepal,
Baman Kumar Ghimire
Teacher, Motherland Secondary School, Pokhara

November 26, 2019
Courses for a Cause:
MOOC Contributions to a "Better Place for All" (Marianne Krasny et al., 2020)
July 31, 2020
Khan Academy aims to give 'strategic supplement'
Brett Molina, USA Today

July 22, 2020
Trend #3: New Educational Models
How to Balance In-Person and Remote Instruction
Mark Lieberman, Education Week

July 25, 2020
Silver Lining for Learning
https://silverliningforlearning.org/
https://www.youtube.com/channel/UC9XEsh89g3ImVvpQf-A/live

August 23, 2020
Trend #4: Tips and Guidelines
Catlin Tucker blog
https://catlintucker.com/
July 23, 2020
6 ways to be more inclusive in a virtual classroom
Flower Darby, Chronicle of HE
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.

August 5, 2020
Fostering an Inclusive Classroom
Tracie Marcella Addy, Derek Dube and Khadijah A. Mitchell, Inside Higher Ed
https://www.insidehighered.com/advice/2020/08/05/small-steps-instructors-can-take-build-more-inclusive-classrooms-opinion
1. Provide more instructional supports.
2. Eliminating expensive course materials.
3. Including alternative assignments (for sick).
4. Survey about tech access, preferences, and special needs (get to know them).
5. Consider flipped class model

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.

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.

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.
Introducing the TEC-VARIETY Model
http://tec-variety.com/

Tone/Climate
Encouragement, Feedback
Curiosity
Variety
Autonomy
Relevance
Interactive
Engagement
Tension
Yields Products

Low Risk  High Risk
1. Risk
Easy to Embed
Extensive Planning

2. Time
Free or Inexpensive
Enterprise Licenses

3. Cost
Instructor-Focus
Student-Focus

4. Student-Centered
Low
High

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/

3. August 2, 2020
   1. Tone/Climate:
      B. Threaded Video Discussions and Questions
         (e.g., Flipgrid; ask students to explain how they would solve a math problem, write a story, or complete a task and they can watch their peers’ videos to hear how their classmates approached the same problem, prompt, or task.)

         Ed Tech with Adam: https://www.youtube.com/watch?v=hysv0PewsFs
         https://techcrunch.com/2018/06/18/microsoft-acquires-social-learning-platform-flipgrid/

   2. Encouragement, Feedback:
      B. Video Tutorials, Demonstrations, and How-To’s (videos, tutorials, etc.)
         (Jing, GoView, Screencast-o-Matic, TikTok, etc.)

         EdTech with Adam channel:
         https://www.youtube.com/channel/UCyLzXEMGgbuzNX9IrPQumDQ
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

4. Variety, Novelty, Fun, Fantasy: A. Poll Everywhere, Zoom Polling, MicroPoll
Girls + data is a non-profit 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.

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

5. Autonomy, Choice: A. Digital Choice Walls
10 Strategies Designed to Engage Elementary Students Online, Catlin Tucker
https://catlintucker.com/

5. Autonomy, Choice: B. Virtual Jigsaw (group choice)
10 Strategies Designed to Engage Elementary Students Online
8 Ideas Designed to Engage Students In Active Learning Online
https://catlintucker.com/
**July 18, 2020**

6. Relevance, Meaningfulness:
A. Enroll in a MOOC and Reflect (e.g., see Class Central)

**March 20, 2018**

6. Relevance, Meaningfulness:
B. Editing Wikipedia Pages

Women’s-Studies Students Across the Nation Are Editing Wikipedia

Emma Kerr, The Chronicle of Higher Education

[Link](https://www.chronicle.com/article/Women-Studies-Students/242866)

**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 this.

Example: [YouTube](https://youtu.be/L6fUOMXnKxU)

**July 8, 2020**

8. Engagement, Involvement:
A. Interactive Maps

(Thinglink: interactive map creator; Google Map Adventures)

[Link](https://www.thinglink.com)

Students can chart the path of a story on a map, they can connect historical info they are learning to the geographic location where events took place, and students can design creative mathematical challenges.

**7. Interactive, Collaborative:**
B. Negotiate Meanings Online
(e.g., MeetingWords: [http://meetingwords.com/](http://meetingwords.com/))

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

[e.g., [https://nowcomment.com/documents/131228](https://nowcomment.com/documents/131228)]

**8. Engagement, Involvement:**
B. Interactive Labs and Simulations

May 11, 2020

9. Tension, Challenge, Controversy, etc.:
   A. What is smileUP & How to use it?

   SMILE, Stanford
   https://www.youtube.com/watch?v=pblU8sGALWo

37

9. Tension, Challenge, Controversy, etc.:
   B. Virtual Sharing Walls Competitions

   e.g., Padlet (A collaboration and discussion board)
   https://padlet.com/samarast/urel07b3nwubivel

38

April 23, 2020

10. Yielding Products:
   A. Class Project: Video, Podcast Show, Documentary, Website, Animation, Song, etc.
   https://app.animaker.com/animo/2h5b0Hz2gxURJ5x4/?shareid=view%7C2h5b0Hz2gxURJ5x4

39

10. Yielding Products, Goals:
   B. Student Generated Timelines, Taxonomies, and Concept Maps
       (Sutori, xtimeline, Preceden, Timeline.js, TimelineCurator, Time Mapper, etc.)
       http://timeglider.com/t/50843d890348008a4f174150d57552c
       https://time.graphics/line/356121144d31494056745067553d

40

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

41

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

42
June 27, 2020

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

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://sciencejournalforkids.org/about-us.html
https://kids.frontiersin.org/
https://sciencejournalforkids.org/about-us.html

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

Reflect 2b. 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.
VideoAnt (Free): https://ant.umn.edu/ (Univ. of Minnesota)

April 29, 2020

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

June 7, 2020

Display 3b. Animations of Data
World Mapper, COVID-19
https://worldmapper.org/map-animation-covid19/
https://www.youtube.com/watch?v=4zv38dJ93Y4
Do 4a. Sample Student Work
e.g., Interactive Archive/Gallery of best work

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

- a. Definitely, Definitely, Definitely...
- b. Probably, Probably, Probably,
- c. Maybe, Maybe, Maybe
- d. No! No! No!

We are entering a jumping off point...

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/

Curtis J. Bonk, IST Professor
Indiana University
cjbonk@indiana.edu; http://curtbonk.com/