

## The HyFlex of Blended Learning: Popular Frameworks for Powerful Learning

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## Opening Poll: Have you ever taught a blended learning or HyFlex course?

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



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## Poll: Have you reflected on your teaching philosophy or learning approach during the pandemic?

- 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.
- Not sure. I'm kinda brain dead right now.
- No, my teaching philosophy is basically the same.



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## June 17, 2021 How can higher ed move blended learning forward?

Jessica Rowland Williams, eCampus News

<https://www.ecampusnews.com/2021/06/17/how-can-higher-ed-move-blended-learning-forward/>



How can higher ed move blended learning forward?

Jessica Rowland Williams, Ph.D., Director, eCampus News  
June 17, 2021  
A new resource can help higher education faculty optimize blended learning strategies and options.



**Planning for a Blended Future**  
A Research-Driven Guide for Educators

Figure 1: Four-dimensional model of learning. Blending a variety of modalities, resources, and strategies can optimize learning outcomes.

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## June 17, 2021 Planning for a Blended Future: A Research-Driven Guide for Educators

<https://www.everyteameverywhere.org/resources/planning-for-a-blended-future/>



Figure 11: Visualization of a blended program.

Planning for a Blended Future // Re/defining the Blend

Page 21

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## June 17, 2021 Planning for a Blended Future: A Research-Driven Guide for Educators

<https://www.everyteameverywhere.org/resources/planning-for-a-blended-future/>



Figure 1: The pedagogical shift from instructor to student-centered.

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## June 17, 2021 Free Book: Hybrid-Flexible Course Design

<https://edtechbooks.org/hyflex>



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## Fall 2021

### Hybrid Modality: HyFlex Teaching

<https://instructionalcontinuity.georgetown.edu/pedagogies-and-strategies/hybrid-hyflex-teaching/>  
In a HyFlex course, courses are delivered both in person and online at the same time by the same faculty member. For any given class meeting, some students might participate in person, while others might participate at the same time online, made possible by a combination of cameras, microphones, displays, and other technology in the classroom.



Some considerations for Concurrent or HyFlex Teaching and Learning

The physical campus constraints and health guidelines will make teaching in a HyFlex environment in the fall challenging.

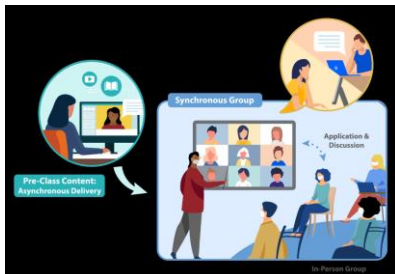
\* Please understand that these are only guidelines to be used as a starting point. The decision will be made by the faculty and the institution will be made by the institution.

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## Fall 2021

### Hybrid Modality: HyFlex Teaching

<https://instructionalcontinuity.georgetown.edu/pedagogies-and-strategies/hybrid-hyflex-teaching/>  
HyFlex (a term coined by [Brian Beatty](#)) stands for a combination of "hybrid," meaning alternating between face-to-face meetings and remote interactions, and "flexible," meaning students move between these participation options.



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## 20 New Roles of the Instructor

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



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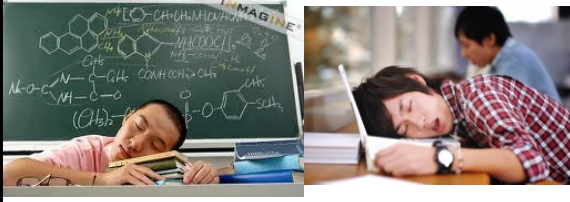
## Bonk's 20 "Last" Principles of Instruction (LAST = Learning Activation System Template)

<http://travellman.blogspot.com/2011/05/bonks-last-principles-of-instruction.html>

**Flexibility** **Support and Feedback** **Choice and Options**  
**Convenience** **Spontaneity** **Passion and Inspiration**  
**Collegiality** **Organization** **Relevance and Meaningfulness**  
**Sharing** **Trial and Error (i.e., it is ok to fail)**  
**Cheerfulness and Optimism** **Expanded Resources**  
**High Expectations** **Purpose and Vision** **Human Connectedness** **#20 ???**  
**Empowerment and Autonomy** **Cognitive Apprenticeship**

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## Needed: New Models of Motivation and Engagement



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## Introducing the TEC-VARIETY Model

<http://tec-variety.com/>  
<http://tec-variety.com/TEC-VARIETY-Chinese.pdf>

**Tone/Climate**  
**Encouragement, Feedback**  
**Curiosity**

**Variety**  
**Autonomy**  
**Relevance**  
**Interactive**  
**Engagement**  
**Tension**  
**Yields Products**

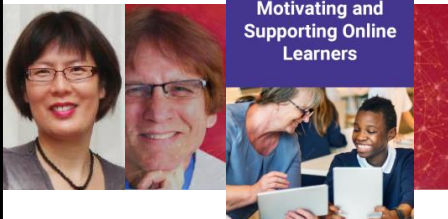


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**September 2022**

### 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/course/details/8>; <https://www.colvee.org/>



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**September 23, 2022**

### Motivating and Supporting Online Learners

<https://colcommons.org/my-course>



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### 1. Risk

Low Risk → High Risk



### 2. Time

Easy to Embed → Extensive Planning



### 3. Cost

Free or Inexpensive → Enterprise Licenses

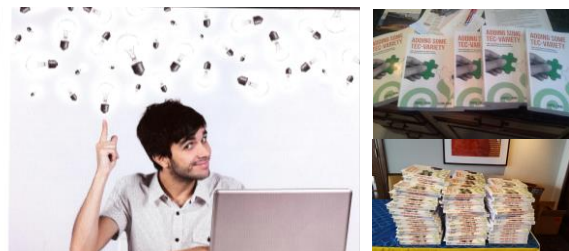


Instructor-Focus → Student-Focus  
 Student-Centered Low → High



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## Examples of TEC-VARIETY



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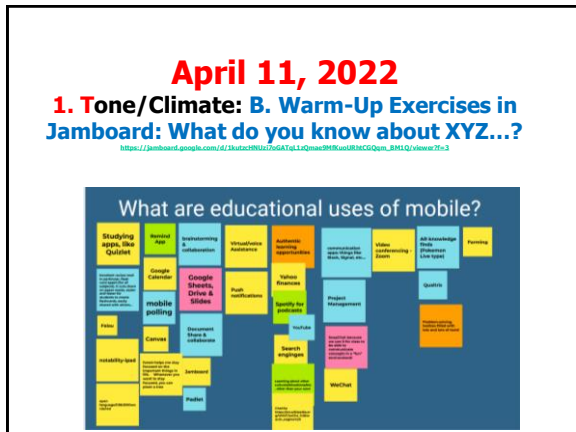


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**January 13, 2022**  
**1. Tone/Climate: A. Course Introductions**

(R678) <https://padlet.com/cmsmeltz/h6zbzpdfos6x19l>  
 (R511) <https://padlet.com/sunseol/b1yr49ljxwc6smkc>

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**March 7, 2022**  
**1. Tone/Climate: C. Brainstorming MOOC Perceptions in Padlet**

<https://padlet.com/basdogan2/yw119ct98styo1bw>

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**September 24, 2020**  
**1. Tone/Climate: D. Breakout Rooms**  
**How Do You Make Zoom Breakout Rooms Less Boring?, Expectations, Share a link, Introductions**  
**Bonni Stachowiak (Columnist), Ed Surge**  
<https://www.edsurge.com/news/2020-09-24-how-do-you-make-zoom-breakout-rooms-less-boring>

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**April 11, 2020**  
**1. Tone/Climate: E. 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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## 6. Relevance, Meaningfulness:

### A. Language Lessons Online

e.g., BBC Learning English, Duolingo, Babbel, SpanishPod, etc.  
(Zixi Li & Curt Bonk, June 2022, Duolingo Research)  
<http://www.bbc.co.uk/learningenglish>



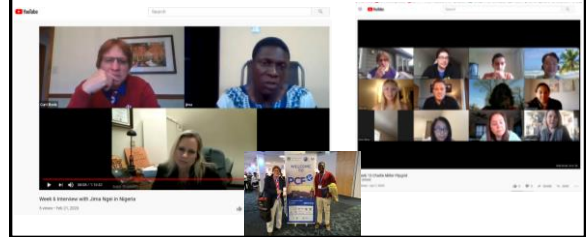
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**April 6 and 28, 2020**

## 6. Relevance, Meaningfulness:

### B. Weekly Guest Expert Chats

SMILE, Paul Kim Stanford, <https://youtu.be/bf7Ds1hVLU>  
February 22, 2020, Jima Ngei in Nigeria (1 hour 15 minutes)  
Video: <https://youtu.be/sM6VMsfQJXc>



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## Expert, Researcher, or Live Author Interviews and Discussions

Students might read the biography or resume of the guest as well as available articles, books, and other resources about this person. Next, the guest might respond to questions from the class based on these resources.

April 4, 2022, R678 Guest Vanessa Dennen at FSU on Social Media  
<https://www.youtube.com/watch?v=-OT2UYE4XRU>

September 17, 2021, Expert chat session with Richard Mayer  
(1:17:47): <https://youtu.be/pVo7IRsbgkA>



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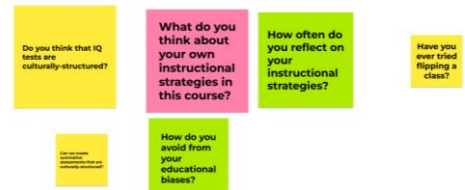
**February 14, 2022**

## 6. Relevance, Meaningfulness:

### C. Questions for Guests in Jamboard or an AMA (Ask Me Anything)

[https://jamboard.google.com/d/1BW2GB3aIvQ035h5hx1dNaMwQo\\_2RUcNTUuo7mrISEig/viewer?sf=2](https://jamboard.google.com/d/1BW2GB3aIvQ035h5hx1dNaMwQo_2RUcNTUuo7mrISEig/viewer?sf=2)

Bloomington Group #1  
"Ask Curt Anything" About Instructional Strategies



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**February 28, 2022**

## 6. Relevance, Meaningfulness:

### D. Past, Present, and Future Panels

R678 with Tom Reeves, Tom Reynolds, Veronica Acosta, and Okhwa Lee  
<https://youtu.be/BUu9vFDqixw>



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**November 27, 2021**

## 6. Relevance, Meaningfulness:

### E. Guest Chats Playlists, R511, Fall 2021

<https://youtube.com/playlist?list=PLHcReRoW2lxPeQcA1LKtHnJiJHPIpKwP>



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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 systems
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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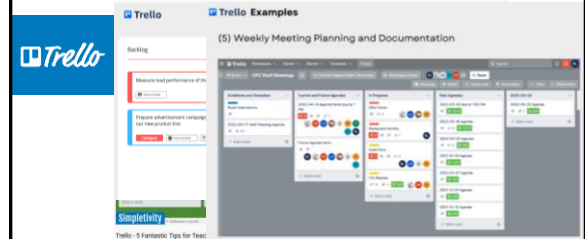
June 27, 2020

## 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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February 7, 2022

## 7. Interactive, Collaborative: B. Team Article Summaries in Jamboard

<https://jamboard.ooodle.com/d/1XkXikFNUCJBvVa7qYhd6N73NZ08cV60F>  
Week Article #6 Themes and Questions

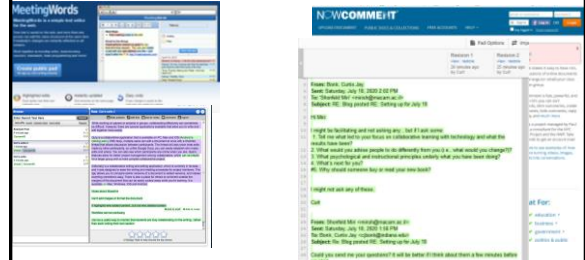


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## 7. Interactive, Collaborative: C. Negotiate Meanings Online

(e.g., MeetingWords: <http://meetingwords.com/>)  
<http://blogs.edon.edu/technology/6-collaborative-writing-applications-for-group-projects-or-papers/>

Also: Google Docs, NowComment, etc. (MixedInk and PiratePad are no more)  
e.g., <https://nowcomment.com/documents/131228>



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Fall 2019, R511

## 7. Interactive, Collaborative: D. Team Article Debates Nuclino (like a wiki...may delete by mistake)

<https://www.nuclino.com/>



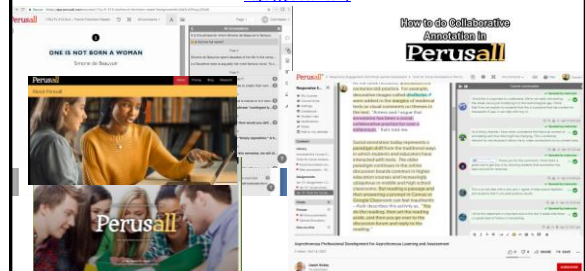
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June 3, 2020

## 7. Interactive, Collaborative: E. Collab Annotation and Group Reading (Perusal)

How to Do Collaborative Annotation and Group Reading in Perusal for Online or Blended Classrooms

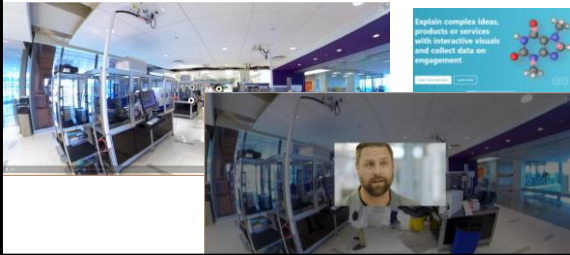
EdTech with Adam: <https://www.youtube.com/watch?v=ed981EComPA>  
<https://perusal.com/>



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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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**May 2, 2022****8. Engagement, Involvement: B. NASA Science Lessons**

<https://www.nasa.gov/stem/nextgenstem/sun-toolkit.html>  
<https://www.nasa.gov/stem/nextgenstem/webb-toolkit.html>  
<https://www.nasa.gov/stem/nextgenstem/index.html>



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**March 22, 2021****8. Engagement, Involvement: C. Famous Stanford coding course seeks to repeat success of novel model of online learning (10,000 students, 120 countries, 900 volunteer teachers)**

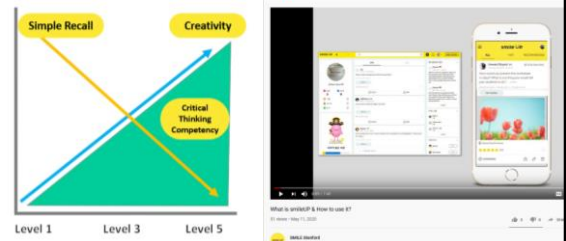
<https://news.stanford.edu/2021/03/22/famous-stanford-coding-course-free-online/>



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**May 11, 2020****9. Tension, Challenge, Controversy, etc.: A. What is smileUP & How to use it?****SMILE, Stanford**

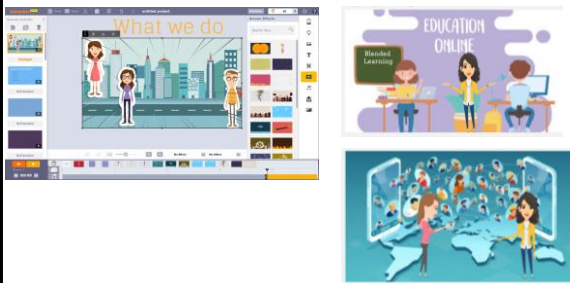
<https://www.youtube.com/watch?v=pblU8sSALWo>



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**10. Yielding Products: A. Class Project: Video, Podcast Show, Documentary, Website, Animation, Song, etc.**

<https://app.animaker.com/animo/2h5b0Hz2qxJR35x4/?shareid=view%7C2h5b0Hz2qxJR35x4>

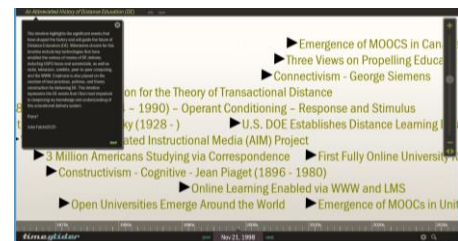


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**April 23, 2020****10. Yields Products, Goals: B. Student Generated Timelines, Taxonomies, and Concept Maps**

(Sutori, xtimeline, Preceden, Timeline.js, TimeLineCurator, Time Mapper, etc.)

<https://time.graphics/line/356a1211435318430fa1741b50d7532c>



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## June 27, 2020

### 10. Yields Products, Goals:

#### C. Design Products (students created infographics, brochures, timelines)

Canva is an online design program that does not require much design skills. You can design professional looking brochures, infographics, PPTs, flyers, and syllabus for free.

**DEFINITIONS**

**Instructional Technology**  
Instructional Technology is the use of technology to enhance learning.

**1970: INSTRUCTIONAL TECHNOLOGY**  
Instructional technology is the use of technology to enhance learning.

**1977: EDUCATIONAL TECHNOLOGY**  
Educational technology is the use of technology to enhance learning.

**1994: INSTRUCTIONAL TECHNOLOGY**  
Instructional technology is the theory and practice of design, development, utilization, and evaluation of processes and resources for learning.

**2008: EDUCATIONAL TECHNOLOGY**  
Educational technology is the study and effective practice of teaching, learning, and improving performance by creating, using, and managing appropriate technological processes and resources.

# Make Commitments:

## Stop and Share in Chat Window:


Which principle(s) of TEC-VARIETY will you use?

**T**one/Climate  
**E**ncouragement, Flexibility  
**C**uriosity

**V**ariety  
**A**utonomy  
**R**elevance  
**I**nteractive  
**E**ngagement  
**T**ension  
**Y**ields 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:** Challenges, Dissonance, Controversy
10. **Yielding Products:** Goal Driven, Purposeful Vision, Ownership



**Poll:** Any light bulbs going off in your 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.



The image shows the cover of the book "Empowering Online Learning" by Curtis J. Bonk and Ke Zhang. The cover is divided into three horizontal color bands: blue at the top, red in the middle, and yellow at the bottom. The title "Empowering Online Learning" is in large white font on the red band. Below it, on the yellow band, is the subtitle "100+ Activities for Reading, Reflecting, Displaying & Doing".

To the right of the book cover is a circular diagram of the R2D2 Model. It consists of four large, overlapping arrows forming a circle, each representing a step in the model:

- Reading** (top, blue arrow): Noted and Selected Learning
- Reflecting** (right, red arrow): Reflective & Observational learners
- Displaying** (bottom, green arrow): Visual learners
- Doing** (left, yellow arrow): Hands-on learners

In the center of the circle is a white circle containing four quadrants, each with a specific activity:

- Top Quadrant:** Problem Orientation & Knowledge Acquisition
- Right Quadrant:** Problem clarification & Knowledge construction
- Bottom Quadrant:** Solution Seeking & Analysis Representation
- Left Quadrant:** Solution Evaluation & Knowledge Transfer

# The R2D2 Model

1. Read (Auditory and Verbal Learners)
2. Reflect (Reflective Learners)
3. Display (Visual Learners)
4. Do (Tactile, Kinesthetic, Exploratory Learners)



## 1. Auditory or Verbal Learners

- Auditory and verbal learners prefer words, spoken or written explanations.



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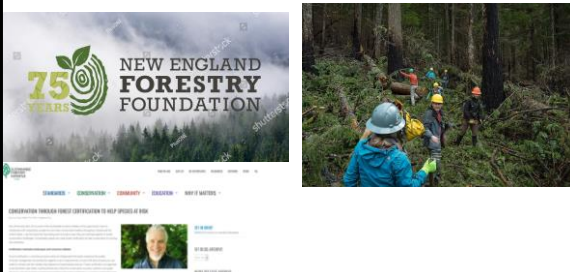
## Read 1a. Listen to Podcasts

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



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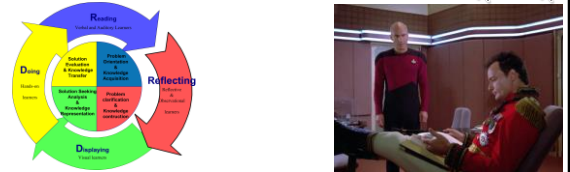
## March 21, 2020 Read 1b. Read Blogs



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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



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## 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?](https://www.bigquestionsonline.com/))

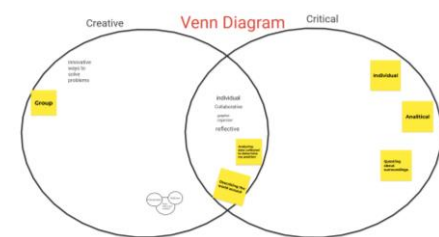
### Forestry & Society Forests of the U.S.--Questions

- What are some major species of eastern forests? Describe them.
- What are some major species of western forests? Describe them. What are some major species of southwestern forests? Describe them. Compare the productivity of temperate forests with tropical and boreal forests.
- Describe the ownership pattern of forestland in the US. What were the major laws that determined US forest land policy? What did they do for US forest policy?

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## September 4, 2021 Reflect 2b. Venn Diagrams in Jamboard

<https://jamboard.google.com/d/1uf5b20JdvcIFVIO5qhaIxuGCLQ3xP-mIGPvF7kdjKA4/viewer?f=5>



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

- |  |  |   |
|--|--|---|
| <ul style="list-style-type: none"> <li>Controller/Executive Director/CEO/Leader</li> <li>Connector/Relator/Linker/Synthesizer</li> <li>Decider/Judge/Settler</li> <li>Devil's Advocate/Critic/Censor</li> <li>Reflector/Thinker/Speculator/Observer/Watcher</li> <li>Warrior/Debater/Arguer/Conqueror/Bloodletter</li> <li>Idea Squelcher/Biased Preconceiver</li> <li>Slacker/Slosh/Slag/Surfer/Dude</li> </ul> | <ul style="list-style-type: none"> <li>Artist/Idea Person/Visionary/Muse</li> <li>Planner/Predictor/Guesser/Flowchart</li> <li>Organizer/Starter/Founder/Initiator</li> <li>Questioner/Ponderer/Protester</li> <li>Adventurer/Discoverer/Explorer/Traveler</li> <li>Mediator/Negotiator/Compromiser/Peacekeeper</li> <li>Watchdog/Evaluator/Measurer</li> <li>Creative Energy/Inventor/Generator/Brainstormer</li> </ul> | <ul style="list-style-type: none"> <li>Optimist/Open-minded/Idealist</li> <li>Robotic/Information Dumpster/Spook-like</li> <li>Absent Minded/Stunner/Dense/Aimless</li> <li>Coach/Facilitator/Inspirator/Trainer</li> <li>Guide/Mentor/Teacher/Scaffolder</li> <li>Humanitarian/Do Gooder/Fund Raiser</li> <li>Funny/Humorous/Comic/Witty</li> <li>Advisor/Responder/Helper/Tutor</li> <li>Worldly/Wiseperson/Sage/Guru/Spiritual Leader</li> </ul> |
|--|--|---|

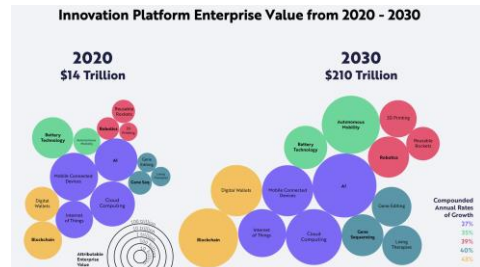


**Example 2: Scaffolding...in the form of structuring the online environment and engagement e.g. reflective roles, self-coding, timely-engagement of instructors or otherwise you have "serial monologues."**

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## November 25, 2021 Reflect 2d. Interpreting Interactive Graphs and Infographics

ARK Invest  
<https://ark-invest.com/articles/portfolio-constructors/ark-invest-market-cap-associated-with-innovation/>



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## 3. Visual Learners

- Visual learners prefer diagrams, flowcharts, timelines, pictures, films, and demonstrations.



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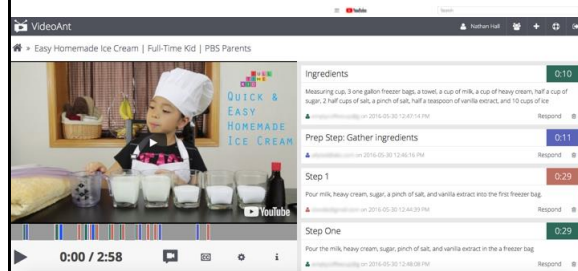
## March 31, 2022 Display 3a. Short Educational Videos: Anchored Instruction/Macrocontext TEDE, BBC News, and New York Times

<https://www.ted.com/> and <https://www.youtube.com/c/BBCNews/featured>



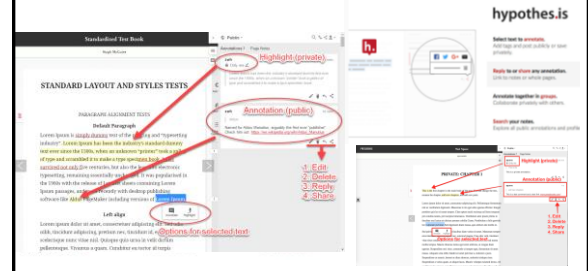
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## Display 3b. Video Annotation and Commenting Tools VideoAnt (Free): <https://ant.umn.edu/> (Univ. of Minnesota) <https://www.youtube.com/watch?v=1SOE2aQky2I> Edpuzzle (Free): <https://www.youtube.com/watch?v=-L62wAxzEM>



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## Display 3c. Collaborative Web and PDF Annotation Tools Hypothes.is (Free): <https://web.hypothes.is/> Note Anywhere: <https://www.youtube.com/watch?v=g4AJseowd4Ho> Adds virtual sticky notes to webpages



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**April 30, 2020**  
**Display 3f. Word Clouds**  
 (e.g., Taggedo, Tagul, WordSift, Word It Out):  
<https://www.wordclouds.com/>



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## 4. Tactile/Kinesthetic Learners

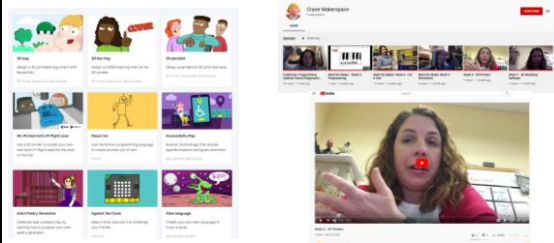
- Tactile/kinesthetic senses can be engaged in the learning process are role play, dramatization, cooperative games, simulations, creative movement and dance, multi-sensory activities, manipulatives and hands-on projects.



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**April 23, 2020**  
**Do 4a. Demonstration Videos**  
**Crane Makerspace, Tina Closser**

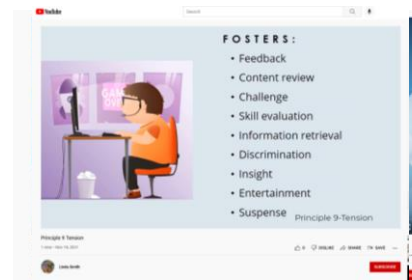
[https://www.youtube.com/channel/UC6eWTF59p7p203H8B1T5wz/view\\_as=subscriber](https://www.youtube.com/channel/UC6eWTF59p7p203H8B1T5wz/view_as=subscriber)  
<https://sites.google.com/view/cranetech/home>  
<https://projects.raspberrypi.org/en/projects>



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**November 18, 2021**  
**Do 4b. Student Explanatory Videos**  
**Linda Smith**

<https://youtube.com/playlist?list=PLGodJ0q20AH8Kk1p7LE7SBjpyqVxVeHd4K>



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**Do 4c. Student Book Projects**  
 e.g., Transformative Teaching Around the World



TRANSFORMATIVE TEACHING  
 AROUND THE WORLD  
 STORIES OF CULTURAL SUSTAINABILITY, TECHNOLOGY  
 INTEGRATION, AND OTHER INNOVATIVE PEDAGOGY

CURTIS BONE AND MEENA ZHU



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**Poll: Which pedagogical model or framework do you prefer?**

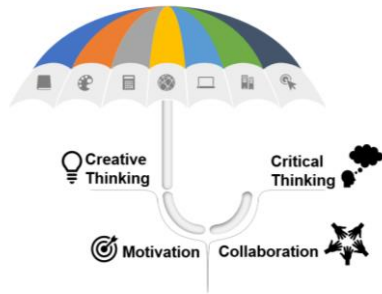
- TEC-VARIETY
- R2D2
- Neither
- Both
- I will try to create some unique combo of the two.



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## Educational Technology



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**Poll: 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.



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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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**We are entering a jumping off point...**



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**Remember...**  
**"I cannot do this alone."**

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



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**Any Questions or Comments?**

Slides at: **TrainingShare.com**  
 (go to "Archived Talks")

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

Papers: [PublicationShare.com](http://PublicationShare.com)

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Motivating and  
 Supporting Online  
 Learners



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