**Luncheon Conversation:**
Adding Some TEC-VARIETY in the Blended Classroom

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在线学习动机与激励：
TEC-VARIETY模型

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**Intrinsic Motivation**
“...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)


**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.

**Introducing the free “TEC-VARIETY” Framework...**
http://tec-variety.com/

**Examples of TEC-VARIETY**

Low Risk \(\rightarrow\) High Risk

1. Risk \(\rightarrow\) Easy to Embed \(\rightarrow\) Extensive Planning
2. Time \(\rightarrow\) Free or Inexpensive \(\rightarrow\) Enterprise Licenses
3. Cost \(\rightarrow\) Instructor-Focus \(\rightarrow\) Student-Focus
4. Student-Centered \(\rightarrow\) Low \(\rightarrow\) High
November 10, 2016

1. Tone/Climate:
   A. Threaded Video Discussions and Questions (e.g., Flipgrid)
      http://flipgrid.com/#429f88c5
      Flipgrid: The Power of Student Voice
   B. Instructor Course Introductions
      (Theatre 10 Intro Video, October 7, 2014, Elizabeth Dale, West Valley College)
      https://www.youtube.com/watch?v=_Wzbzc3QiiA
      Chuck Severance, U Michigan/Coursera) in Barcelona
      http://www.youtube.com/watch?v=JzNHvmSvFET
      Chuck Severance, University of Michigan
      https://www.coursera.org/course/pythonlearn

2. Encouragement, Feedback:
   A. Blog and Website Polling (e.g., Poll Everywhere, BlogPolls, BlogPoll, MicroPoll)
      http://www.polleverywhere.com/
   B. Voice/Audio Feedback
      Vocaroo: http://vocaroo.com/
      http://vocaroo.com/delete/s0x8moQAYAiu/a37bbc9408bb8c95
      (Recorded by Curt Bonk for the Open University of China)

November 29, 2017

3. Curiosity, Surprise, Intrigue, Unknowns:
   A. Summary and Comparison Maps
      A Map Showing How Much Time It Takes to Learn Foreign Languages: From Easiest to Hardest, Open Culture
   B. Multimedia News
      (e.g., This may be the oldest surviving Photo of a human, November 7, 2014, CNN, Brandon Griggs; But this image, taken in Paris, France, in 1838)
April 17, 2017

3. Curiosity, Intrigue, Unknowns:

C. 1st woman to officially run Boston Marathon does it again, 50 years later

Emanuella Grinberg, CNN, USA Today


July 16, 2017

3. Curiosity, Intrigue, Unknowns:

E. Dinosaur Discoveries

'Holy Grail' of dinosaur fossils discovered in Egyptian desert

Julia Hawkins Sets 100-Meter Dash Record for Women 100 Years or Older

Journalist for CNN, USA Today

http://bleacherreport.com/articles/2721985-julia-hawkins-sets-100-meter-dash-record-for-women-100-years-or-older

January 5, 2017

3. Curiosity, Intrigue, Unknowns:

D. Immediate Science

Move over T. rex, new dinosaur unveiled, Amanda Jackson, CNN

http://www.cnn.com/2016/01/14/living/titanosaur-new-dinosaur-on-display-new-york-airport/

January 30, 2017

3. Curiosity, Intrigue, Unknowns:

F. Immediate Science

Ancient human ancestor was a big mouth

Doyle Rice, USA Today


A new species of dinosaur has been discovered in Sahara Desert. It's an extremely rare discovery because dino fossils are not known to be in that part of the world. USA TODAY

October 5, 2016

4. Variety, Novelty, Fun, Fantasy:

A. Random Lists

(Random.org—clocks, coins, playing cards, dice, integers, passwords, jazz scales, lists, sequences, etc.)

Random.org

October 5, 2016

4. Variety, Novelty, Fun, Fantasy:

B. Online Test/Quiz Review Games

(e.g., Jeopardy Rocks)

https://www.jeopardy.rocks/r511merve/
April 3, 2017
4. Variety, Novelty, Fun, Fantasy:
C. Kahoot!
https://getkahoot.com/
July 31, 2017
I’m in ‘Kahoots’ with Technology in the Classroom
Cassandra OSullivan Sachar, Faculty Focus

April 3, 2017
4. Variety, Novelty, Fun, Fantasy:
D. Sli.do
https://www.sli.do/

July 17, 2017
4. Variety, Novelty, Fun, Fantasy:
E. Learning Chemistry in Virtual Reality,
Sarah Hardman, New Learning Times
1:38 video: https://vialogues.com/vialogues/play/38337/
All: http://curtbonk.com/chemistry-vr.html
01:41: http://curtbonk.com/chemistry-vr-1.html

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

5. Autonomy, Choice:
B. Design Multimedia Glossaries
P540 Final Assignment: Nate Wynne, Supersized Personal Course Glossary
http://natewynne1982.wix.com/p540courseglossary
Ozgur Ozdemir, December 2012
http://r685glossary.shutterfly.com/
Umida Khikmatillaeva, Dec. 2011, P540
http://learningplanet.shutterfly.com/
Jan. 20, Oct. 13, & Nov. 2016 (Zoom)
6. Relevance, Meaningfulness:
A. Weekly Guest Expert Chats
R511 Chat with Mike Molenda, IU
6. Relevance, Meaningfulness:
B. Case-Based Learning: Instructor Cases (e.g., Mark Braun, IU)

July 28, 2017
6. Relevance, Meaningfulness:
C. Case-Based Learning: Modern medicine breathes new life into virtual training
.01-.21: http://curtbonk.com/vr-medicine.html
.37-.66: http://curtbonk.com/vr-medicine2.html
.57-1:29: http://curtbonk.com/vr-medicine3.html

September 3, 2017
6. Relevance, Meaningfulness:
D. Mindmap Recaps of Online Discussions
Mindmap of Week 2 of R511

7. Interactive, Collaborative:
A. Negotiate Meanings Online (e.g., PiratePad: http://meetingwords.com/)
MeetingWords, Google Docs, NowComment, MixedInk

7. Interactive, Collaborative:
B. Virtual Sharing Walls
e.g., Padlet (What is your secret recipe to engage?)
http://padlet.com/zaid_alsagoff/engage

7. Interactive, Collaborative:
C. Backchannel Chat (TodaysMeet)
https://todaysmeet.com/
R678_Emerging_Learning_Technologies
https://todaysmeet.com/R678_Emerging_Learning_Technologies
7. Interactive, Collaborative: D. Guest Speaker Quotes
(Rey Junco, February 25, 2013)

8. Engagement, Involvement:
A. Interactive Maps Timelines
October 22, 2014, Second immigration wave lifts diversity to record high, Edward Greg Toppo and Paul Overberg, USA Today

February 14, 2018
8. Engagement, Involvement:
B. Maps
This map shows where more Americans are willing to support free speech
The Monkey Cage, The Washington Post

December 13, 2016
9. Tension, Challenge, Controversy, etc.:
A. Controversial Issue Debates
Librarians for Instructional Technology, Latrice Booker, R511, Fall 2016

8. Engagement, Involvement:
c. Interpreting Infographics
August 5, 2015
How much rainforest in that chocolate bar?
Global Forest Watch, Nancy Harris, Octavia Payne and Sarah Mann

9. Tension, Challenge, Controversy, etc.:
B. Yes, Mr. President, We Remade Our Atlas to Reflect Shrinking Ice
Christine Dell’Amore, National Geographic, August 3, 2015
9. Tension, Challenge, Controversy, etc.:
C. Immediate Science

Woolly Mammoth Could Be ‘De-Extinct’ In 2 Years, Scientist Says

Hillary Hansan, CNN (video: 3:22)

http://www.huffingtonpost.com/entry/woolly-mammoth-elephant_us_58a62fa7e4b037d17d264477

10. Yields Products, Goals:
A. Facebook Course Page (R546)

https://www.facebook.com/JennyBELTT/

B. Database Collection Tools

Design Article Database in Pinterest,
Meina Zhu and Jennifer Weebeck
https://www.pinterest.com/zhumeina0000/r678-emerging-learning-technology/
https://www.pinterest.com/jenniferweebeck/emerging-learning-technologies/

C. Student Generated Timelines, Taxonomies, and Concept Maps

R678 John Falchi, Timeglider, An Abbreviated History of Distance Education
http://timeglider.com/t/50843d8903a48008?min_zoom=1&max_zoom=100

D. Goal Setting Tools
(e.g., I Done This, Milestone Planner, and 43 Things)

E. Student Website Development

R511 Final Projects, April 2016
IT and HPT Comparison (Website), Drug Hsu
http://drugandindira.wix.com/r511finalproject

*IST Construction, Co.,
Rob Elliot, Patrick Walsh, Erin Milanese, R511, December 2016
http://relliott.net/istconstruction/index.php

“Cousins but Not Twins: Instructional Technology and Human Performance Technology,”
Merve Basdogan and Brett Gary, R511, December 2016
http://educbasdogan.wixsite.com/511final
The R2D2 Method

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

January 20, 2016
Read 1a. Podcasts
IU Bloomington podcast series to launch Jan. 24, Steve Hinnefeld, IU Newsroom

IU’s Media School dean James Shanahan, at left, will host a new campus podcast. Senior Luqmann Ruth will read the news for the inaugural podcast.

| PHOTO BY JENNIFER PIUREK, OFFICE OF THE PROVOST

Read 1b. Collect Oral Histories
E.g., Joan Kang Shin, George Mason University, has her students write “This I believe” Statements. (EFL teachers around the world interview elders in their community for a rich database of oral histories and documentaries for social change)

Oral History Society: http://www.ohs.org.uk/
May 28, 2015
Read 1c. Immediate Science and Open Access Science
Ancient jawbones put new species on the human family tree, researchers say, Laura Smith-Spark, CNN
http://www.nature.com/nature/journal/v521/n7553/full/nature14448.html

January 28, 2015
Read 1d. Twitter Fed Class Discussions
Live-Tweeting Assignments: To Use or Not to Use? the Chronicle of Higher Education, Adeline Koh
http://chronicle.com/blogs/profhacker/live-tweeting-assignments-to-use-or-not-to-use/58949

February 14, 2018
Read 1e. Grammar Checkers (e.g., Grammarly, Ginger, GrammarCheck, PaperRater, and SpellCheckPlus)
http://www.grammarly.com/

February 28, 2018
Reflect 2a. Reflect on and Debate News
Did Homo erectus speak? Daniel Everett, Bentley University, Aeon
https://aeon.co/essays/tools-and-voyages-mapped-that-homo-erectus-invented-language

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
Reflect 2b. Big Issue Reflections
(Big Questions Online (BQO)), Feb 3, 2015
(e.g., Can a Living Creature Be as Big as a Galaxy?)
https://www.bigquestionsonline.com/

Reflect 2c. What-if Reflections
What if Aaron Burr had missed Alexander Hamilton?, Thomas Fleming, CNN

Reflect 2d. Cultural Blogs
(e.g., Dr. Kim Foreman, San Fran State Univ, Come and See Africa Blog; http://comeandseeafrica.blogspot.com/)

Reflect 2e. Workplace Internship, Practicum, and Field Experiences

Reflect 2f. Interpreting Interactive Graphs
Tech billionaire announces $250 million in cancer immunotherapy funding, Jayne O'Donnell, USA Today

Dr. Jedd D. Wolchok, Chief, Melanoma and Immunotherapeutics Service at Memorial Sloan Kettering Cancer Center in Photo by John O’Boyle, Freelance ORG XMIT: JO 134700 seanparker 4/7/2016 [Via MerlinFTP Drop]

3. Visual Learners
• Visual learners prefer diagrams, flowcharts, timelines, pictures, films, and demonstrations.
Display 3a. Virtualize Words Used (e.g., Wordle, Taggedo, Tagul, WordSift, Word It Out)

Display 3b. Maps of Languages
Langscape, Language at Maryland
https://languagescience.umd.edu/beyond-umd/langscape
http://theweek.com/articles/545768/cool-interactive-map-lets-explore-worlds-languages
http://langscape.umd.edu/map.php

Display 3c. (April 28, 2015) Concept Mapping and Timeline Tools (Bubbl.us, Cmap, Gliffy, Spicynodes, or Mindomo)
http://www.spicynodes.org/index.html

Display 3d. Graphical Recordings
Elliott Masie’s Learning 2015, Nov 1-4, 2015
http://www.imagethink.net

Display 3e. Weekly 1 minute Video Updates (e.g., Pinkcasts from Daniel Pink)
http://www.danpink.com/pinkcast/

Pinkcast 2. Advice from Adam Grant: Look for “disagreeable givers”

Display 3f. Short Educational Videos:
CNN, BBC, TED, TED-Ed, ForaTV
BBC One-Minute World News (August 31, 2015)
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.

Do 4a. Student Music Recordings of Course Content

IST Groove Song, Jeffrey Jenkins, R511: [https://soundcloud.com/jeffjenkins25/ist-groove](https://soundcloud.com/jeffjenkins25/ist-groove)
The World is Open, Jill Kaufman, R678: [https://www.youtube.com/watch?v=ZRGV0Mg5Vmw&feature=youtu.be](https://www.youtube.com/watch?v=ZRGV0Mg5Vmw&feature=youtu.be)
Daniel Halluska, P540: [http://www.youtube.com/watch?v=5ibZpZcKappl](http://www.youtube.com/watch?v=5ibZpZcKappl)
Weiping (William) Yang, IST History [1:43]: [https://drive.google.com/file/d/0B9YDNkNTIa4DaDNSVXdOeDM1SkU/view](https://drive.google.com/file/d/0B9YDNkNTIa4DaDNSVXdOeDM1SkU/view)
IST paradise (2:32) (It all started with IST) [https://drive.google.com/file/d/0B9YDNkNTIa4DSzhNd3VBdzVpZlE/view](https://drive.google.com/file/d/0B9YDNkNTIa4DSzhNd3VBdzVpZlE/view)

Do 4b. Student Created Recap Videos

Piercarlo Abate: [http://www.youtube.com/watch?v=_TURzHO0aU](http://www.youtube.com/watch?v=_TURzHO0aU)
Qi Li, Gangnam: [http://www.youtube.com/watch?v=7Q429lqxZaU&feature=youtu.be](http://www.youtube.com/watch?v=7Q429lqxZaU&feature=youtu.be)
Miguel Lara (Web 2.0 FREEDOM): [http://www.youtube.com/watch?v=8cmCFWi9lW8](http://www.youtube.com/watch?v=8cmCFWi9lW8)
Kendal Rasnake (Is IT Right For You?): [https://www.youtube.com/watch?v=MJ3GUDICIGw](https://www.youtube.com/watch?v=MJ3GUDICIGw)

Poll: Which do you prefer…
(A) TEC-VARIETY or (B) R2D2?

Poll: 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.

Any Questions or Comments?
Slides at: TrainingShare.com
Papers: PublicationShare.com
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