


Masterclass Day 1: Warm up
Hyper-Engaging Instructional Strategies
for Education 3.0:
Critical, Creative, Cooperative

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HOFSTRA UNIVERSITY

The Best of Beethoven
<https://www.youtube.com/watch?v=W-fHeTX70Q>



2

HOFSTRA UNIVERSITY


May 6, 2020
IU FAMILY ENSEMBLE - HAIL TO OLD IU,
Indiana University
 3:18 (video): <https://www.youtube.com/watch?v=ynxylm-hf3I>



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HOFSTRA UNIVERSITY

April 3, 2020
Performances canceled, musicians find a way to lift every voice: From elementary school to large symphonies, Annie Aguiar, USA Today
<https://www.usatoday.com/story/news/nation/2020/04/03/coronavirus-canceled-performances-but-virtual-choirs-lift-spirits/2039847201/>
 Video (44 Seconds): <http://curtbonk.com/corona2.html>



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Masterclass Day 1:
Hyper-Engaging Instructional Strategies
for Education 3.0:
Critical, Creative, Cooperative


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Talk Overview

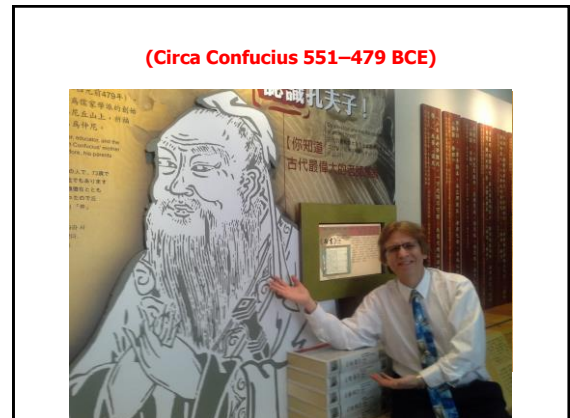
1. Jobs are changing
2. Education 3.0/4th Industrial Age
3. Age on Innovation and Creativity
4. Education 20/20 and the Role of the Instructor
5. First and Last Principles of Instruction
6. 50+40 instructional strategies
7. Looking toward the future...slightly...



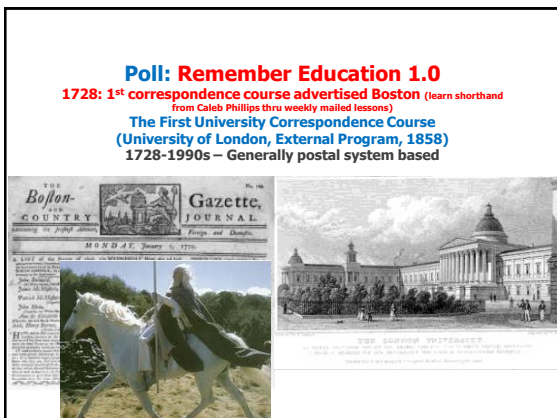
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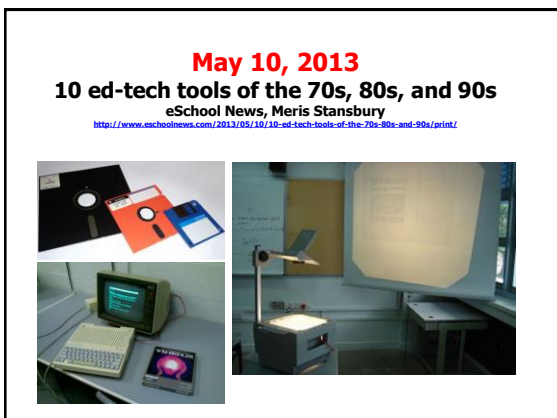
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11



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Fast Forward 30+ Years...
"Anyone can now learn anything from anyone at any time."

SKILLSHARE LEARN TEACH

Learn anything from anyone, anywhere.



Join us! Start learning and discover unique classes in your city.

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September 10, 2019
The Future of Learning, Transforming Access
 Simon Nelson, CEO, FutureLearn, PCF9 Conference, Edinburgh, Scotland

And the threat of AI and automation is very real. A 2017 report by McKinsey found that half of all current work activities could be automated, using technology that already exists. And that by 2030 anywhere from 75 million to 375 million workers worldwide will be displaced from their old jobs and require retraining.



75-375m
 displaced workers
 by 2030

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November 28, 2017
Automation could kill 73 million U.S. jobs by 2030
 Paul Davidson, USA Today

<https://www.usatoday.com/story/tech/2017/11/28/automation-could-kill-73-million-u-s-jobs-2030/85878061/>
 Video (1:20): <http://curtbonk.com/automation.html>
 Video (1:20): <http://curtbonk.com/automation2.html>

Automation could kill 73 million U.S. jobs by 2030





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March 29, 2017
Every industrial robot takes up to 6 jobs, study finds
 Steve Goldstein, MarketWatch

<http://www.marketwatch.com/story/every-industrial-robot-takes-up-to-6-jobs-study-finds-2017-03-29>
 Video: 1:46 <http://curtbonk.com/futureandroids.html>
 Video: 49-1:12: <http://curtbonk.com/futureandroids2.html>
 Video: 01 to 49: <http://curtbonk.com/futureandroids3.html>
 Video: 01-25: <http://curtbonk.com/futureandroids4.html>

Every industrial robot takes up to 6 jobs, study finds


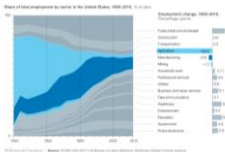



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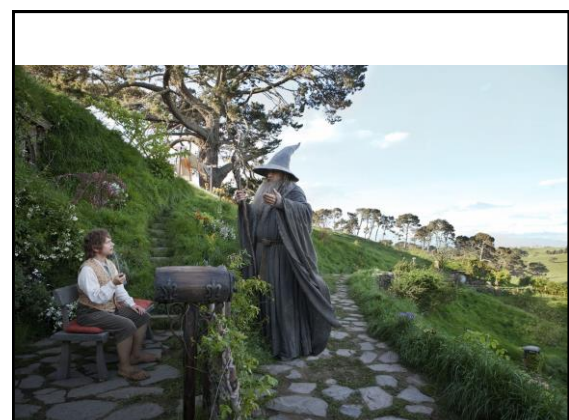
December 6, 2017
Jobs lost, jobs gained:
What the future of work will mean for jobs, skills, and wages
 By James Manyika, Susan Lund, Michael Chui, Jacques Bughin, Jonathan Woetzel, Parul Batra, Ryan Ko, and Saurabh Sanghi
 McKinsey and Company

<https://www.mckinsey.com/futureofwork/insights/future-of-organizations-and-work/jobs-lost-jobs-gained-what-the-future-of-work-will-mean-for-jobs-skills-and-wages>
 video (2:30): <http://curtbonk.com/automation-work.html>

Jobs lost, jobs gained: What the future of work will mean for jobs, skills, and wages

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July 24, 2018
The 100-Year Life: Living and Working in an Age of Longevity
 Lynda Gratton and Andrew Scott
<http://www.100yearlife.com/>
<https://www.amazon.com/100-Year-Life-Living-Working-Longevity/dp/1543424634>



19

July 11, 2017
Going 'phigital'? 4 things schools need to know about Generation Z, Todd Kominicki, TrustEd
<http://trustedk12.com/phigital-digital-learning/>
May 15, 2017
 3 must know's about the rising "phigital" student-and why their impact is enormous, Meris Stansbury, eCampus News
<https://www.ecampusnews.com/campus-administration/education-gen-z-phigital-student/>




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The Creation of Effective Learning Environments
<http://study.com/academy/lesson/the-learning-environment-in-the-classroom-definition-impact-importance.html>



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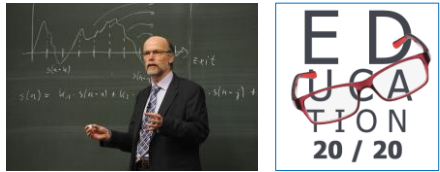
July 29, 2016
Reimagine Your Learning Space: Starbucks Your Classroom!
 Oskar Cymerman, Teaching Channel
<https://www.teachingchannel.org/blog/2016/07/29/starbucks-your-classroom/>



Sterile, industrial-era rows aren't very attractive or motivating. Even more, I've become convinced that traditional educational settings dull the senses...I believe the "Starbucks" environment will promote that freedom and movement.
 Freedom is the key ingredient to social-emotional well-being and deeper learning. Rows and columns constrict. They hold and stifle. That is the truth. That is the reality in many U.S. classrooms today. But no longer in mine. Never again.

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Education 3.0...Education 20/20



"In Education 3.0, classrooms would move away from lectures, such as this one, to having class time be spent on discussions and projects, using digital technology."
 (Per Wikipedia: https://en.wikipedia.org/wiki/Education_3.0)

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Education 3.0
The Genesis and Emergence of Education 3.0 in Higher Education and its Potential for Africa
 First Monday, by Derek Keats and J. Philipp Schmidt, March 2007
<http://firstmonday.org/ojs/index.php/fm/article/view/1625/1448>

EDUCATION 3.0

Characteristics	Education 1.0	Education 2.0	Education 3.0
Primary role of professor	Source of knowledge	Guide and source of knowledge	Orchestrator of collaborative knowledge creation
Content arrangements	Traditional copyright materials	Copyright and free/open educational resources for students within disciplines, sometimes across institutions	Free/open educational resources created and reused by students across multiple institutions, disciplines, nations, supplemented by original materials created for them
Learning activities	Traditional, essays, assignments, tests, some groupwork within classroom	Traditional assignment approaches transferred to more open technologies; increasing collaboration in learning activities; still largely confined to institutional and classroom boundaries	Open, flexible learning activities that focus on creating room for student creativity; social networking outside traditional boundaries of discipline, institution, nation

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September 18, 2017
Education 1.0 to 3.0
 Gilly Salmon, University of Liverpool, UK
<http://www.gillysalmon.com/learningfutures.html>

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Now What is Education 4.0?
 "Innovation-producing education. Learn more in:
 Development of Individual Agency within a Collaborative,
 Creative Learning Community"
<http://www.lgl-global.com/dictionary/education-40/41755>
<https://thinc-in.th/en/admission/education4.html> (Chula Engineering)

26

January 14, 2016
**The Fourth Industrial Revolution:
 What it means, how to respond**
 Klaus Schwab, Founder and Executive Chairman, World Economic Forum
<https://www.weforum.org/agenda/2016/01/the-fourth-industrial-revolution-what-it-means-and-how-to-respond/>
 (disruptive, mobile supercomputing, artificially intelligent robots, self-driving cars, neuro-technological brain enhancements, genetic editing, etc.)
<http://www.trainingshare.com/fourth-industrial-evolution-video-clip-shed-also>

27

April 13, 2016
**The Fourth Industrial Revolution:
 What it means, how to respond**
 Klaus Schwab, Founder and Executive Chairman, World Economic Forum
<http://trainingshare.com/fourth-industrial-evolution-video-clip.php>
<http://www.tubechop.com/watch/8280981>

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August 21, 2016
**ST Future Economy Roundtable:
 Is Asia ready for the Fourth Industrial Revolution?**
 The Straits Times
<http://www.stn.com.sg/news/asia/ready-for-the-fourth-industrial-revolution>

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Poll: #1.
**Read any good books lately
 detailing this shift?**

30

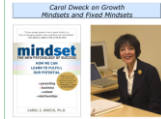
1. Mindset (2006):

The New Psychology of Success

Carol Dweck

<http://mindsetonline.com/index.html>

- Growth vs. fixed (i.e., entity) theories of intelligence
- Intelligence is not fixed
- Practice, practice, practice
- Do not blame others
- Learning goals over performance goals
- Asks: What can I learn from this?
- Asks: How can I improve?

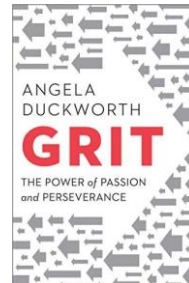


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2. Grit (2016):

The Power of Passion and Perseverance

Angela Duckworth



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3. Creating Innovators

Tony Wagner (2012)

<http://creatinginnovators.com/>

Most Likely to Succeed (2015):

Preparing Our Kids for the Innovation Era

Tony Wagner and Ted Dintersmith

<http://www.tonywagner.com/1933>

- Play
- Passion
- Purpose and life goals
- Open cultures of innovation and interdisciplinary problem solving
- Collaboration
- Intrinsic motivation



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4. Drive (2009):

The Surprising Truth About What Motivates Us

Daniel Pink

Motivation 3.0

- Freedom, challenge, purpose
- Creative, interesting, etc.
- self-directed work
- Intrinsic motivation
- Life as play and possibility
- Engagement and mastery
- Autonomy



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5. Finding Your Element:

How to Discover Your Talents and Passions and Transform Your Life

By Lou Aronica and Ken Robinson (2013)

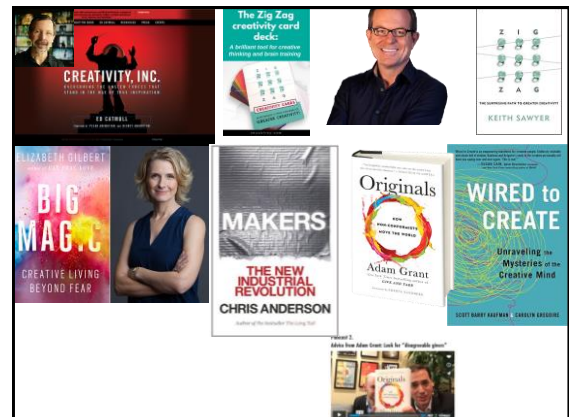
<http://www.inventtolearn.com/>

- Find your zone (deep in the throes of exploration and personal passion)
- Think differently (make fresh connections and analogies; avoid groupthink)
- Do something, develop your creative ideas
- Use your imagination, play with ideas
- Free and open exchange of ideas
- Encourage expression of personal ideas/feelings

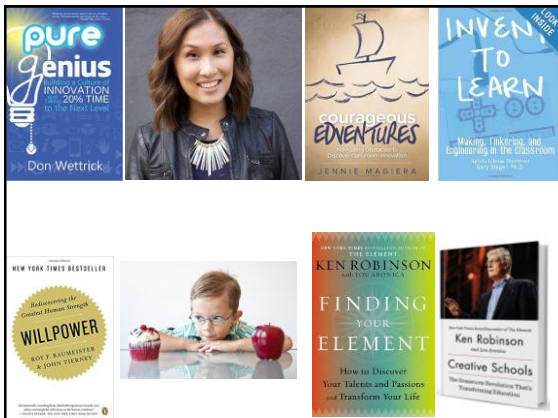


Sir Ken Robinson calls for a revolution in education

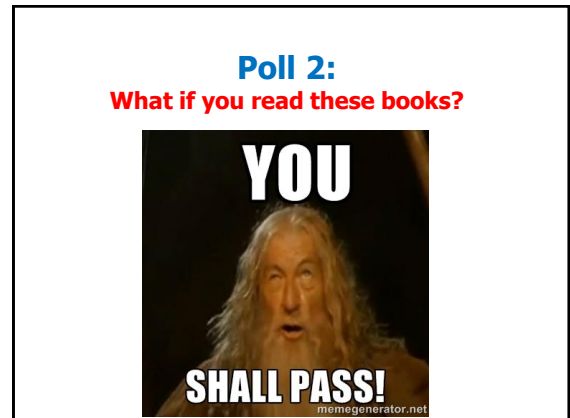
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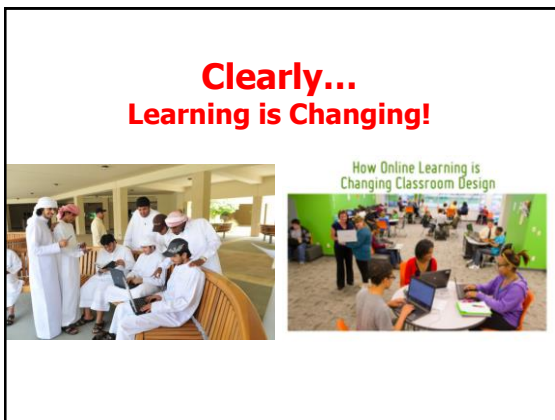
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2. Instructor as Consultant



43

3. Instructor as Conductor



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4. Instructor as Course Ambassador



45

5. Instructor as Curator



46

6. Instructor as Concierge



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7. Instructor as Camping Trip Guide



48

8. Instructor as Cultivator



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20 New Roles of the Instructor



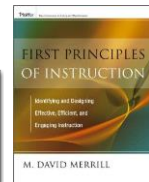
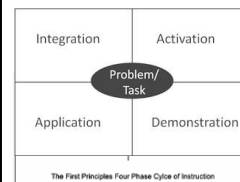
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Merrill's First Principles of Teaching/Instruction

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

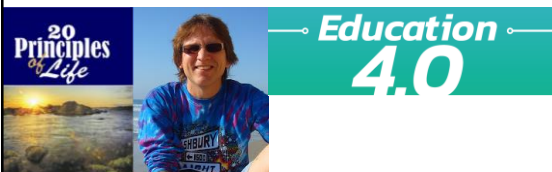


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Bonk's Last Principles of Teaching/Instruction (Education 4.0?)

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

<http://www.applcathai.com/articles/education-4-0/>



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1. The Principle of Flexibility

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



54

2. The Principle of Convenience

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



55

3. The Principle of Collegiality

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



56

4. The Principle of Cheerfulness and Optimism

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



57

5. The Principle of High Expectations

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



58

6. The Principle of Choice and Options

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



59

7. The Principle of Empowerment and Autonomy

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



60

8. The Principle of Support and Feedback

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



61

9. The Principle of Spontaneity

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



62

10. The Principle of Organization

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



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11. The Principle of Sharing

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



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12. The Principle of Nontraditional Learning

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



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13. The Principle of Passion and Inspiration

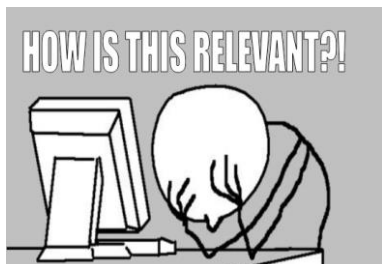
<http://travellinedman.blogspot.com/2011/05/books-last-principles-of-instruction.html>



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14. The Principle of Relevance and Meaningfulness

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



67

15. The Principle of Trial and Error (i.e., it is ok to fail)

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



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16. The Principle of Expanded Resources

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



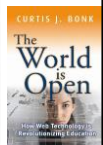
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The World is Open: How Web Technology Is Revolutionizing Education



TEN OPENERS: (WE-ALL-LEARN)

1. Web Searching in the World of E-Books
2. E-Learning and Blended Learning
3. Availability of Open Source and Free Software
4. Leveraged Resources and OpenCourseWare
5. Learning Object Repositories and Portals
6. Learner Participation in Open Information Communities
7. Electronic Collaboration
8. Alternate Reality Learning
9. Real-Time Mobility and Portability
10. Networks of Personalized Learning



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The World is Wide Open! (South University of Science and Technology of China, Wednesday June 10, 2015)



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17. The Principle of Human Connectedness

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



73

18. The Principle of Cognitive Apprenticeship

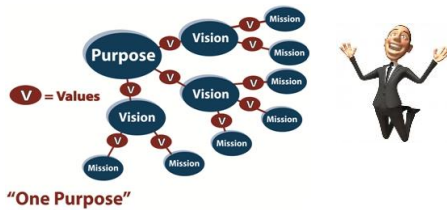
<http://travelinedman.blogspot.com/2011/05/bonks-last-principles-of-instruction.html>



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19. The Principle of Purpose and Vision

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



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20. ??? (what is missing)

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



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

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



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Overcoming the Resistance Movement



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1. Incremental Change



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2. Shared Success Stories and Best Practices



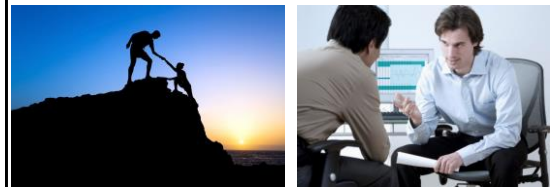
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3. Modeling Expectations



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4. Mentoring and Coaching



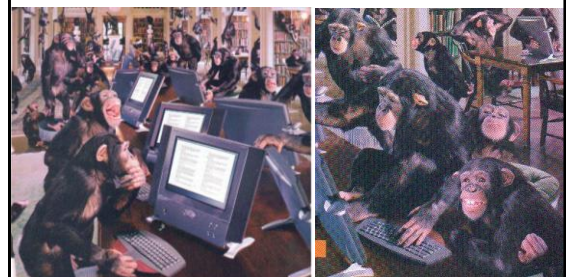
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5. Browse other courses...!



83

50+ (40) Hyper-Engaging Ideas



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Poll #3:
Which topic are you most interested in fostering or learning about?

- A. Creative thinking online
- B. Critical thinking online
- C. Collaborative learning and teamwork online
- D. Motivation



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50+ (40) Engaging Collaborative and Active Learning Ideas (note ideas that will work (+), might work (?), and will not work (cross off))



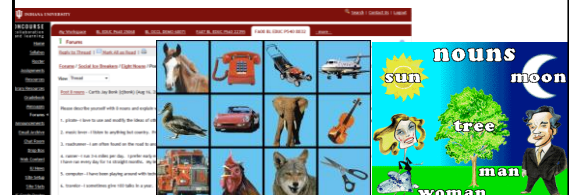
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1. Ice Breaker #1: Eight Nouns Activity

- Please describe yourself with 8 nouns and explain why those nouns apply to you. Also, reply to 2-3 peers in this class on what you have in common with them.



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2. Ice Breaker #2: Have You Ever...? And Accomplishment Hunts

- Ask have your ever questions:
 - Swam in the ocean?
 - Been above Arctic circle?
 - Seen a rhino in a zoo?
 - Whitewater rafted...?



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3. Ice Breaker #3: Goals and Expectations Charts (L = Cost, L = Risk, M = Time)

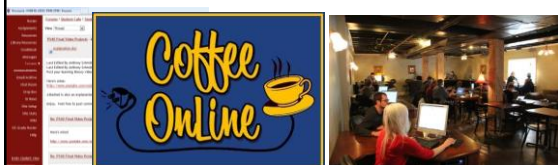
- a. What do you expect from this class, lesson, workshop, etc., what are your goals, what could you contribute?
- b. Write short and long terms goals down on goal cards and post to discussion forum.
- c. Write 4-5 expectations for this session.
- d. Expectations Flip Chart (or online forum):
- e. Debrief.



90

4. Online Café Question Exchange

- Have students leave you or their classmates questions online.
- Answer as many as you can.
- Peer to peer café for exchanging resources and sharing information.



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5. Just in Time Teaching (online warm-up activities)

- Assign a problem before class.
- Evaluate solutions.
- Change class based on results.



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Poll #4:

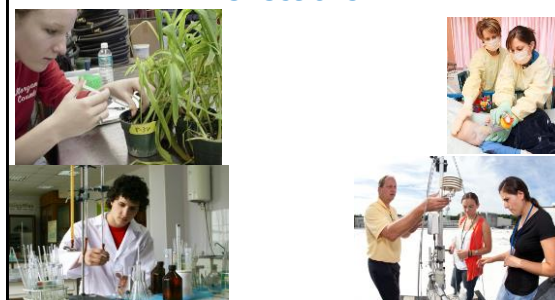
Which of these warm up and social ideas do you like best?

- Eight nouns
- Have you ever
- Goals and expectations
- Just in time teaching
- Online café



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6. Internship, Practicum, Job, Workplace Internship, and Field Reflections



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7. Reuse Online Discussion and Blog Transcripts

- Have students bring in their online discussions or to class.
- Look for key concepts embedded in the transcripts.
- Share or have competitions.



95

8. Structured Controversy Task

- Assign 2 to pro side and 2 to con side
 - Read, research, and produce different materials
 - Hold debate (present conflicting positions)
 - Argue strengths and weaknesses
 - Switch sides and continue debate
 - Come to compromise
- Online Option: hold multiple forums online and require to comment on other ones.



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9. Pruning the Tree (i.e., 20 questions)



- Have a recently learned concept or answer in your head.
- Students can only ask yes/no types of questions.
- If guess and wrong they are out and can no longer guess.
- The winner guesses correctly.



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10. One minute papers or muddiest point papers (L = Cost, M = Risk, M = Time)

- Have students write for 3-5 minutes what was the most difficult concept from a class, presentation, or chapter. What could the instructor clarify better.
- Send to the instructor via email or online forum.
- Optional: Share with a peer before sharing with instructor or a class.



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11. Reflection Papers: Job Application and Trend Papers (3-4 page)

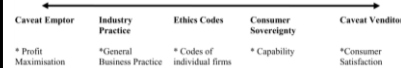
- Have students write papers about emerging trends in the field.
- Have them select topics from a list or suggest topics. Give sample papers.
- Perhaps have them present their trend and job applications papers to class.



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12. Value Lines

- Pose question or issue
- Students mark down their feelings or votes
- Share votes and rationale with class
- Recast votes



100

13. Best 3 Activity (Thiagi, personal conversation, 2003)

- After a lecture, have students decide on the best 3 ideas that they heard (perhaps comparing to a handout).
- Work with another who has 3 as well and decide on best 3 (or 4).
- Those pairs work with another dyad and decide on best 3 (or 4).
- Report back to class.



101

14. PMI (Plus, Minus, Interesting) (L = Cost, L = Risk, M = Time)

- After completing a lecture, unit, video, expert presentation, etc. ask students what where the pluses, minuses, and interesting aspects of that activity.

What's good +	What's bad -	What's interesting ?



Cool Stuff

102

Poll #5: Pick one of these critical thinking activities you might use?

- A. Internship, practicum, or job reflections
- B. Discussion transcript and blog reflections
- C. Structured controversy
- D. Pruning the tree
- E. Minute papers
- F. Best 3



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15. K-W-H or K-W-H-L (L = Cost, L/M = Risk, M = Time)

At the end of a unit, student presentation, videotape, expert presentation, etc., have student write down:

- What did you know?
- What do you want to know?
- What did you learn?
- H = How will we learn it?



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16. Force Field Analysis on Problem (L = Cost, M = Risk, M = Time)

- **Driving Forces:** list on left side of a paper, the forces that might help them solve a problem (the allies!).
- **Restraining Forces:** list on the right, the forces that are working against them. What are the forces operating against the solution of the problem?
- Perhaps assign some value related to difficulty or importance and compare columns and make decisions (e.g., 0 (low) to 5 (high)).



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17. Visual Thinking Exercises: Semantic Feature Analysis (L = Cost, L = Risk, L/M = Time)

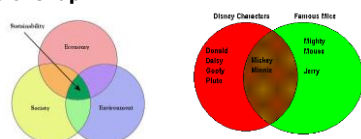
- Have students note if an element or feature is present or absent. (evaluate with a + or - or ? on a grid)
(e.g., different laptop computers, color/black white options, USB ports, Webcam, wireless, wireless mouse, carrying handle, 4 gig Ram, etc.)
- Share with class.

	meat eaters	plant eaters	fly	swim	walks on 2 legs	walks on 4 legs
lion						
stegosaurus		✓				
apatosaurus						
triceratops						

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18. Venn Diagram

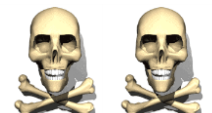
1. Draw two or more circles with overlapping parts to represent different topics, theories, or concepts.
2. Name features, components, principles, or ideas that make each concept or topic unique and put in parts that do not overlap.
3. Name overlapping features, principles, or ideas that link each concept or topic and put in parts that do overlap.



107

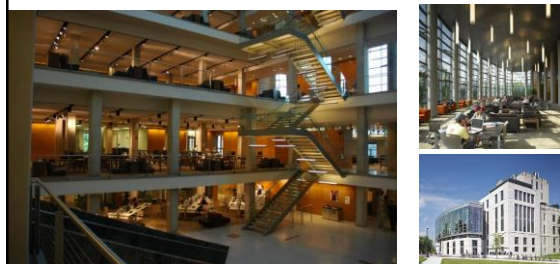
19. Two Heads vs. One (Thiagi, 1988)

- Everyone posts a 100 word summary of an article.
- Students pair up and produce a better 100 word summary.
- Their 3 summaries are read and rated by other groups.
- Groups rank them for 1 for best, 2 for 2nd best, and 3 for third.
- Pass back to original team.



108

20. Online Resource Library (ORL) or Library Day (e.g., The Thompson Library at Ohio State Univ.)



109

What have you learned so far?

- List 1 solid idea learned so far and 1 fuzzy one.
- Share in chat window.



110

21. Nominate Quotes (e.g., Shakespeare)

- Students can explore online quotes (Wikiquote).
- Suggest best ones.
- Respond to other suggestions.



111

22. Just Suppose and What If? (L = Cost, L = Risk, M = Time)

- Imagine a situation or scenario and reflect on the consequences.
- "Just suppose that the entire world will get access to the Web?"

Guess
What?



112

Poll #6:

Which of these exploration and creativity activities did you like best?

- K-W-L or K-W-H-L
- Online Resource Library (ORL)
- Just Suppose or What If
- Nominate quotes
- Force Field Analysis
- Two Heads vs. One



113

23. Wet Ink or Freewriting (L = Cost, M = Risk, M = Time)

Writing without reflecting or lifting your pen for a set period of time.

- Just imagine: imagine you have created a highly active teaching situation...What do you see? Can students wonder, question, speculate, take risks, active listening??? How is creativity fostered here? Describe environment. Physically, mentally, emotionally, etc...



114

24. Metaphorical thinking (L = Cost, M = Risk, M = Time)

- how is my class like:
 - a prison, a beehive, an orchestra, ghetto,
 - expedition, garden, family, herd, artist's palette,
 - machine, military camp, Olympic games, hospital, theater, etc.



115

25. Reverse Brainstorming (L = Cost, L = Risk, M = Time)

- Generating ideas to solve the reverse of a particular problem, issue, or concern.
- More is better and the wilder the better.
- Hitchhiking or piggybacking as well as combining ideas is encouraged. However, there is no evaluation of ideas allowed.
- For example, How can we decrease the use of active learning ideas in college settings?



116

Poll #7: Almost Half-Way... Please Share the Best Two Ideas so Far (Think: which can you use?)



117

26. Online Scholar Debate Panel or Symposium

- Instead of role play, form online debate panels or symposia on particular topics.
- Set the time for each debate or open it up for an entire week.
- Or bring in expert guests for the debate or panel.



118

27. Online Role Play Personalities

- List possible roles or personalities (e.g., coach, questioner, optimist, devil's advocate, etc.)
- Sign up for different role every week (or for 5-6 key roles during semester)
- Perform within roles—try to refer to different personalities



119

28. Six Hats (Role Play)

(De Bono, 1985; Karen Belfer, 2001, Ed Media)

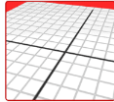
- **White Hat:** Data, facts, figures, info (neutral)
- **Red Hat:** Feelings, emotions, intuition, rage...
- **Yellow Hat:** Positive, sunshine, optimistic
- **Black Hat:** Logical, negative, judgmental, gloomy
- **Green Hat:** New ideas, creativity, growth
- **Blue Hat:** Controls thinking process & organization



120

29. Morphological Synthesis (L = Cost, M = Risk, M = Time)

- Write features of one item down the horizontal column.
- Write features of another item down the vertical.
- Look at intersection for new item or concept.



121

30. Numbered Heads Together

- Assign a task and divide into groups (perhaps 4-6/group and count off 1-4).
- Perhaps assign group names or hold competition between them.
- Discuss problem or issue assigned.
- Instructor calls on groups & numbers.

(Online Option: assign numbers and ask certain one to do different things.)



122

Poll #8:

Which of these creative and collaboration activities did you like best?

- Six hats role play
- Online scholar debate
- Role play personalities
- Metaphorical Thinking
- Reverse Brainstorming
- Wet Inking or Freewriting



123

31. Jigsaw

- Form home/base groups of 4-6 students.
- Student move to expert groups in forums.
- Share knowledge in expert groups and help each other master the material.
- Come back to base group to share or teach teammates.
- Students present ideas FTF or in a **synchronous webinar** or are individually tested; there are no group grades.



124

32. Phillips 66 (Buzz Groups)

- Assign topic (e.g., review readings for this week).
- Students work in groups of 6 for 6 minutes on a particular problem.
- After 6 minutes, stop discussion.
- Share with class.

–Online Option: assign teams to discuss articles for 1-2 days before an online lecture. Warm up activities!



125

33. Human Graph

- **Class lines up: (1-5)**
- 1 = Strongly agree,
- 3 = neutral,
- 5 = strongly disagree
- e.g., **this workshop is great!**
- In a videoconference or synchronous session, have students line up on a scale (e.g., 1 is low and 5 is high) on camera according to how they feel about something (e.g., topic, the book, class).



126

34. Different Strokes (Thiagi, 1988)

- Have students create a summary of the readings: 1 page, 2 page, 10 question, an outline, a visual, a list of key points, a flowchart, a mind map, a slogan, a bumper sticker.
- Share and compare.
- Discuss.

**QUESTION
TECHNOLOGY**



127

35. One Visual Exercises

- Tell students to bring in one visual representing their outside readings.
- Have students become the instructors using that visual.



128

36. 99 Second Quotes and Set Time Presentations (L = Cost, M = Risk, M = Time)

- Everyone brings in a quote that they like from the readings
- You get 99 seconds to share it and explain why you choose it in a sync chat
- Options
 - Discussion wrapped around each quote
 - Link or debate quotes online



129

37. Cool Resource Provider (Bonk, 2004)

- Have students sign up to be a cool resource provider once during the semester.
- Have them find additional paper, people, electronic resources, etc.
- Share and explain what found with class.



130

38. Just-In-Time Syllabus

(Raman, Shackelford, & Sosin)
<http://ecedweb.unomaha.edu/jits.htm>

Syllabus is created as a "shell" which is thematically organized and contains print, video, and web references as well as assignments. (Goals = critical thinking, collab, develop interests)
e.g., To teach or expand the discussion of supply or elasticity, an instructor might add new links in the Just-in-Time Syllabus to breaking news about rising gasoline prices.



131

39. Volunteer Technology Demos (Bonk, 1996)

- Take students to a computer lab.
- Have students conduct a technology demonstration that relates to something from the class (replaces an assignment).
- Include handout
- Debrief



132

40. Poster Sessions and Gallery Tours

- Have students create something--flowchart, timeline, taxonomy, concept map.
- Have half of the students present for 15-20 minutes and then reverse roles.
- Post these in the course management system.
- Discuss, rate, evaluate, etc.

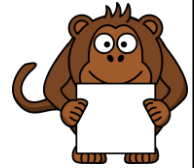


133

Poll #9:

Which of these learner-centered activities did you like best?

- A. Human Graph
- B. Phillips 66
- C. Volunteer technology demos
- D. Cool resource provider
- E. 99 Second quotes
- F. One Visual



134

A Ten Item Bonus



135

41. Critical Friend, Think-Pair-Share, or Turn To Your Partner and Share

- Pose a question, issue, activity, etc.
- Students reflect or write on it.
- Then they share views with assigned partner and share with class.
 - Online Option: assign email pals, Web buddies, or critical friends.



136

42. Planted Questions (Active Learning, Silberman)

- Choose questions that will help guide my lesson and write them out on note cards sequentially with a cue on them.
- Prior to the lesson pass the cards and explain to the students who you gave cards to about the cues.
- Then during the implementation of the lesson perform cues to get students to ask questions which guide lesson.
- Debrief at end.



137

43. Index Match Cards (Active Learning, Silberman)

- Make an equal amount of note cards, half with questions and the other half with the answers to the questions.
- Mix up and give each student a card.
- The exercise is to find you match.
- After they find their match, go around the class and go through questions and answers.



138

44. Talking Chips

- Pass out poker chips to students; perhaps give each 2 red ones, 2 blues ones, and 2 white ones.
- Students use a red chip when they ask a question; a blue chip when they make a statement; and a white chip when they answer a question someone has raised.
- When out of chips, they can no longer talk.



139

45. Cooperative Teaching Scripts

- Read different passages
- Put out of sight
- One person summarizes the content of first passage and the other asks clarifying questions
- Work together to develop analogies, images, etc. to learn
- Repeat steps for other article
- Read passage that did not read



140

46. One Stray-Three Stay

- Give a task to small groups of students.
- Assign one person as spy or pirate to see the answers of other students (one stray-three stay method) and share with group.



141

47. One Stay-Three Stray

- Group assigns one person from their group to stay behind and share product or ideas with others who visit their poster or station (one stay-three stray method).



142

48. Talking String

(L = Cost, L = Risk, L = Time)

- State what hope to gain from this workshop (or discuss some other issue) as wrap string around finger; next state the names of previous people and then state their reasons.



143

49. Psychic Massage (a closer activity) (L = Cost, M = Risk, L = Time)

- Divide in teams of 3-5.
- In alphabetical order of first names have someone turn his or back to the group
- Team members must make positive, uplifting statements about that person behind his or her back but loud enough for others to hear them.
- One minute per person.



144

50. Stand and Share



1. Present a question.
2. When know the answer, stand up to indicate to the instructor that you have an answer.
3. Wait until all are standing.
4. Call on one at a time.
5. When you give an answer or hear you answer given, you can sit down (unless you have an additional answer).



145

Poll #10: Stop and Share: Top Three Things Learned!



146

Ten More Bonus Items



147

51. Snow White and the Seven Dwarfs Activity

<https://www.youtube.com/watch?v=QhrCA1pA3jw> (Video: 0:27)
Which Dwarf are you today?
<http://www.playbuzz.com/rebeccam10/which-of-the-7-dwarfs-are-you>



148

Perhaps you want to be the evil queen...

<https://www.youtube.com/watch?v=mqmIMvWnIV8> (video: 1:04)



149

Perhaps you want to be the evil queen...

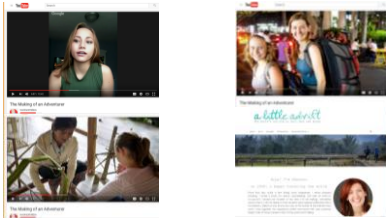
<https://www.youtube.com/watch?v=mqmIMvWnIV8> (video: 1:04)



150

52. Student Created Documentaries

R678 Final Projects, April 2016
The Making of an Adventurer (video), Troy Cockrum
<https://www.youtube.com/watch?v=ew6e7Chd9I8>



151

53. Little Known Fact Activity

- Write on notecard a little known fact.
- Instructor collects and passes out.
- Students put card on forehead without reading it and finds the person with it (yes/no questions: is this you?).
- When find match, interrogator asked questions of the confessor and finally guesses it.

—Could do this online.



152

54. Scavenger Hunt

1. Create a 20-30 item scavenger hunt (perhaps to find resources that will later need).
2. Engage in activity.
3. Collect work.
4. Post scores.



153

55. Virtual Conference Attendance and Reflection Papers

(e.g., free online philosophy class summer 2014 in a virtual world, May 2014, UW Whitewater; see: <http://www.uww.edu/news/archive/2014-05-second-file>)

- Have students attend an online conference.
- Ask them to write a reflection paper on the keynotes or other sessions.
- Share in online drop box or discussion forum.



154

56. Inside and Outside or Fishbowl

1. Situate students in two circles--outer & inner.
2. Present a problem, situation, or topic.
3. Have students immediately behind each other discuss their solutions, ideas, or answers.
4. Only those on the inner circle can talk or discuss. Those behind have to listen.
5. After 5-10-15 minutes, share with the person behind and switch seats.
6. Now discussion resumes on inside circle.
7. After 5-10-15 minutes rotate or come to compromise.



155

57. Peer Mentoring Sessions (Bonk, 1996)

1. Have students sign up for a chapter wherein they feel comfortable and one that they do not.
2. Have a couple of mentoring sessions in class.
3. Debrief on how it went.



156

58. Issue Cards and Discussion Questions (L = Cost, L = Risk, M = Time)

- Everyone brings in question and issue cards on the articles or readings.
- Partner off and create a list and then collect question cards, and,
- Pass out to different groups to solve.



157

59. Three Step Interviews

1. After complete lecture, assign pairs of students who interview each other about what they learned.
2. Pairs introduce each other to another group based on what they learned.
3. Groups introduce each other to class based on what they learned.



158

60. Creative Dramatics (Gary Davis, Creativity is Forever, 1998)

- Stretch, relax, loosen up, etc...
- Biggest/smallest thing; Holding up the roof; Favorite animal; Mirror effect; Imagine taste/smell...
- Imagine taste/smell... Ice Cubes, Puppets, Mirror effect, Ridiculous Poses, Favorite animal, People Machines, Invisible Balls.
- Imagine hear, touch, smell, tastes, stiffest/most rubbery, Angriest/happiest.



159

The World is very open! (South University of Science and Technology of China, Wednesday June 10, 2015)



160

How About Ten More?



161

61. Mock Trials with Occupational Roles (L = Cost, H = Risk, M/H = Time)

- a. Create a scenario (e.g., school reform, gov't protest).
- b. Get volunteers for diff roles (everyone must have role).
- c. Perhaps consider having one key person on the pro and con side of the issue make a statement.
- d. Discuss issues from role (instructor is moderator or one to make opening statement; he/she collects ideas on document camera or board). Come to compromise.
 - a. Online Option: volunteer for roles or assign roles to each team member or have them sign up for different roles.



162

62. Online Book Reviews

- Have students read different books online and post reviews on forum or to Amazon or send to the author.
- Give each other feedback.



Book
Reviews

163

63. Rapid Data Collection

- Before, during, or after a lecture, assign students to go outside for 15-20 minutes to collect data on certain questions.
- Give handout.
- Come back to class to discuss.
- Perhaps assign to teams with competitions.



164



64. Brainstorming (L = Cost, L = Risk, M = Time)

- Generating ideas to solve a particular problem, issue, situation, or concern.
- More is better and the wilder the better.
- Hitchhiking or piggybacking as well as combining ideas is encouraged. However, there is no evaluation of ideas allowed.
- For example, How can we increase the use of active learning ideas in college settings?



165

65. Reciprocal Teaching Scripts

- Instructor gives purpose of the method (e.g., summarization, prediction, clarification, and questioning skills)
 - He/she models the method
 - Student takes over as the teacher
 - Student teacher models skills requested
- Online Option: Sign up to start or wrap discussion or to mentor each other.



166

66. Nominal Group Process

1. Give statement of the problem.
2. Silent generation of ideas to solve it.
3. Round robin sharing of ideas and piggy backing of them.
4. Classification & grouping of ideas.
5. Straw vote ranking of ideas. Secret ballots.
6. Further clarification of ideas and emerging concepts. Can change wording.
7. Final priority weighting. Public vote.



167

67. Tests and Bells (Bonk, 2004)

- After or during a lecture, have students form into interest groups and make summaries of pts.
- Have the students take a class quiz.
- Each group gets a bell to answer pts from the lecture.
- Give pts for first group (or 2) that rings their bell and has correct answer. (take off pts for wrong answers.)
- Total pts and give prizes.
- Discuss and debrief



168

68. The Envelope Game (Thiagi, 1988)

- Tell class they will be tested on ability to apply their learning.
- Have teams write a problem on a large envelope.
- Pass to next team to solve (they place solution in envelope).
- Pass to next team to solve and so on.
- Original team ranks solutions.
- Have teams retrieve ranked solutions.



169

69. Surface and Deep Facts and Questions (Bonk, 2011)

- Students write a major fact from the prior week on a notecard and a minor one on the reverse.
- Under that, they note a surface question on a notecard and a deep question on the back.
- Pass card to the right and read new card (2 times).
- Now answer questions on card you have.
- Pass to right and read twice.
- Now apportion pts to each question and fact.
- Read aloud the questions and answers you like best.



170

70. Summary Judgment (Thiagi, 1988)

- Collect summaries and distribute 2 to each group of 2 people.
- Have them put a smiley face by the best summary.
- Post summaries on wall and have students read them.



171

Do we have time for 20 more?



172

71. Cage Matches or Debates (with audience topical suggestions) Cage Match on MOOCs at SXSWedu 2013 (Curt Bonk & Chuck Severance)

<http://chronicle.com/article/How-to-Run-a-MOOC-Cage-Match/42777>
<https://soundcloud.com/sxswedu/cage-match-the-massive-open>



Bonk

Severance

173

72. Paired Article Critiques in Blogs

- Students sign up to give feedback on each other's article reviews posted to their blogs.

Article	Student Critique	Student Peer Review
Arbaugh, J.B. (2007). <i>Does the Community of Inquiry Framework Predict Outcomes in Online MBA Courses?</i>	Stephen Moses	Lorraine Ryan
	Carolyn Pavolko	Karen Lippard
	Lin Yu	Flores Liu
	Alex Brierley	Lori Adkinson
Meyer, K.A. (2003). <i>Face-to-Face versus Threaded Discussions: The Role of Time and Higher-Order Thinking.</i>	Lorraine Ryan	Paul Anderson
	Hagit Dhanini	Yvonne Toney
	Neena Arora	Carolyn Pavolko
	Karen Lippard	Lin Yu
Shea, P., Li, C.S. and Pickert, A. (2006). <i>A study of teaching presence and student sense</i>	Francesca Wilkinson	Alex Brierley
	Heather Barnett	Stefan Rasporich
	David Wilson	Neena Arora

174

73. Group Investigation or Coop-Coop

- Divide a general topic into sub-topics.
- Groups divide sub-topics into mini-topics.
- Each student investigates their mini-topic.
- Students present findings within groups (perhaps in drop boxes and in online discussion forums).
- Integration is made of all the material in each group and presented to the class.
- Evaluation is made of team as well as individual efforts.



175

74. Bells and Whistles (Frederick, College Teaching) (L = Cost, M = Risk, L/M = Time)

- Add media to a presentation (audio, music, animations, pictures, etc.)
- Try to play off emotions and capture mood or tone of an event, era, or issue.



176

75. Peer Feedback and Reviews of Student Galleries, Exhibits, and Other Products

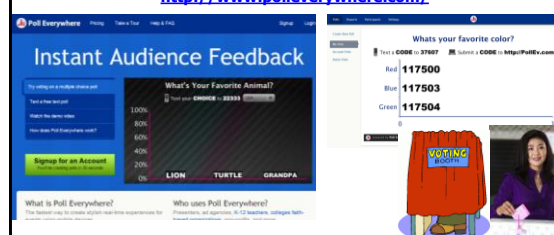
- Have students review and evaluate each other's work in an online gallery, exhibit hall, and website.



177

76. Class Voting and Polling Blog and Website Polling (e.g., Poll Everywhere, BlogPolls, BlogPoll, MicroPoll)

<http://www.polleverywhere.com/>



178

77. 321

3 = Takeaways

2 = Things you knew already

1 = Question you have



179

78. 333

3 = Good things

3 = Bad things

3 = Questions



180

79. Cutie (QTI)

Q = Questions and Queries
T = Topics and Themes
I = Issues and Insights



181

80. Phillips 66

- Groups of 6 people discuss any topic for 6 minutes. When 6 minutes ends, stop talking.



182

81. Phillips 66 + 3T: Table Top Talking (3T) (e.g., Lord of the Rings Tables)

- Order the class pizza or learners meet at a local pizza or restaurant place to discuss class concepts for 6 minutes (or not discuss them).



183

82. Consultative Services and Contracted Tasks

- Establish work arrangement with a client which is evaluated by the client and the instructor.



184

83. Historical Role Play or Mock Trial (L = Cost, H = Risk, M/H = Time)

- Assign roles after a lecture.
 - Have students read more about roles.
 - Come back dressed in costume.
 - Act out scene.
- Online Option: volunteer for roles or assign roles to each team member or have them sign up for different roles.



185

84. READER/READERS (Clark & Bonk, 1992)

- Review why you are about to read.
- Explore passage for main ideas.
- Ask questions about the main ideas.
- Draw conclusions.
- Evaluate your responses.
- Read for answers and Summarize main ideas.



– Other similar strategies include paired repeated reading, paired reading, Cooperative Integrated Reading and Composition (CIRC) Program, reciprocal teaching, cooperative scripts.

186

85. Peer Interviews

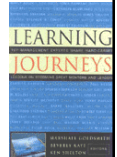
- After lecture, have learners interview each other about what they learned.
- Introduce each other based on what learned.



187

86. Reflection Papers: #1 Individual Reflections or Super Summaries (3-4 page)

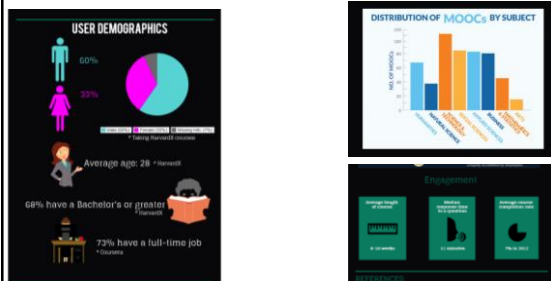
- Learning journeys/Super Summaries/Personal Theory or Philosophy (**Reflect Online**):
 - Have students reflect on their learning journeys in a course.
 - Have them reflect and compare the concepts that they have learned to others.
 - Perhaps compare to sample papers from previous semesters.



188

87. Interpreting Infographics

Infographic: Global MOOC statistics, April 17, 2014
eCampus News, Meris Stansbury
<http://www.ecampusnews.com/research/infographic-moocs-global-436/>
Infographic: <https://magic.piktochart.com/output/1747660-moocs>



189

88. Explore Online Library Resources

Digital Public Library of America
<http://dp.la/>

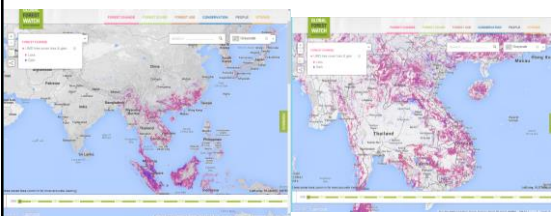


190

89. Map Trend Interpretations

e.g., Global Forest Watch

<http://www.globalforestwatch.org/map/3/-3.72/27.00/ALL/grayscale/loss/596>



191

90. Multimedia Team Assignments

Multimedia Assignments: Not Just for Film Majors Anymore, April 21, 2014, Chronicle of Higher Education, Danny Ledonne

http://chronicle.com/article/Multimedia-Assignments-Not-Just-for-Film-Majors-Anymore/145939?cid=af&utm_source=af&utm_medium=en



192

Poll #11. 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.
7. More than 10.



193

**Chat Window Sharing:
Three Words from this Session...?**

**e.g., "I am happy!" and...
"minions are happy!"**



194

**Poll #12:
Is This n Evolution or Revolution?**



195

**Poll #13: Excited or does all
this give you a headache?**



196

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

(South University of Science and Technology of
China, Wednesday June 10, 2015)



197

Things are heating up!



198

**The Learning Revolution
is coming within reach!**



199

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

"I cannot do this alone."

"I cannot do this alone."

"I cannot do this alone."



200

Any Questions or Comments?

Slides at: TrainingShare.com

Papers: PublicationShare.com

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

Email: cjbonk@indiana.edu



201