

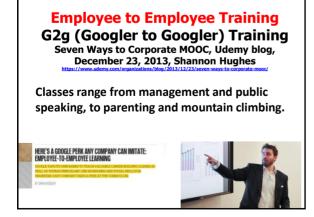


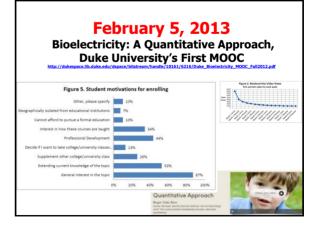
September 16, 2013

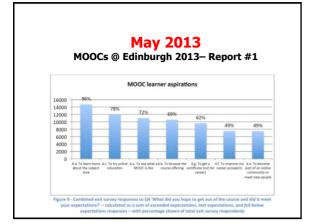
Rwandan Degree Program Aims for a 'University in a Box', Chronicle of Higher Education, Megan O'Neil http://chronicle.com/article/Rwandan-Degree-Program-Aims/141631/



Students attend an orientation session at Kepler, a new hybrid program in Kigali, Rwanda, which will use MOOCs and classroom time to help students earn competency-based associate degrees.







August 30, 2015

Massive online courses grow; what's in it for the universities?, Kirk Pinho, Crain's Detroit Business

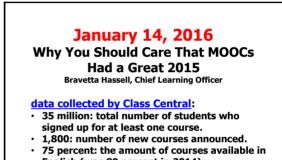
 More than 3.25 million people took massive open online courses through the University of Michigan during the last three years — a figure equivalent to 76 percent of the metro Detroit population of 4.29 million.

August 30, 2015

Massive online courses grow; what's in it for the universities?, Kirk Pinho, Crain's Detroit Business

And all told, there have been between 16 million and 18 million people enrolled in MOOCs, about 2,500 of which had started or were scheduled to start as of July 2015, according to EdSurge Inc., an independent Burlingame, Calif.-based education technology information provider.

A typical MOOC enrollment level is around 25,000 students, according to research by Katy Jordan, a Ph.D. candidate focusing on technology-enhanced learning at The Open University in the United Kingdom.



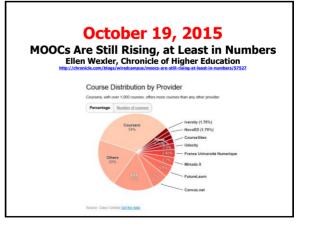
- English (was 80 percent in 2014). • 2,200: courses offered for the first time.
- <u>Reportlinker</u> estimates the MOOC market to grow by nearly \$7 billion by 2020.

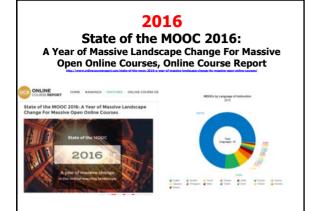
January 14, 2016

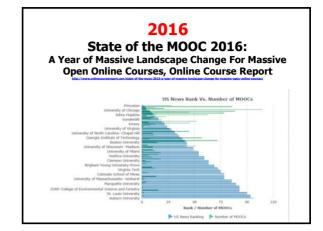
Why You Should Care That MOOCs Had a Great 2015

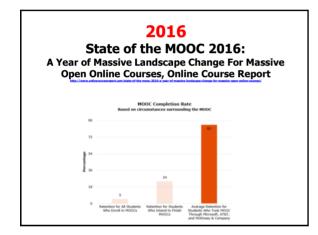
Bravetta Hassell, Chief Learning Officer

- Self-paced courses are getting a boost...More than 800 selfpaced courses exist in the MOOC market, and that number is only getting larger.
- MOOC providers are realizing their value. No longer are MOOC providers offering free certificates. At Coursera, the average course is \$56; at edX, it's \$53. Further, Coursera is putting up a paywall for graded assignments for some courses.

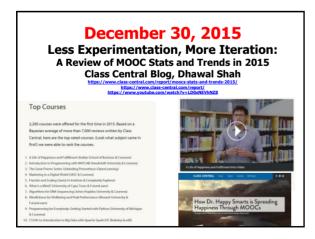


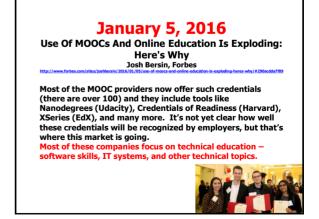












January 13, 2016

Degree gets you a tech job — or your money back, Marco della Cava, USA Today

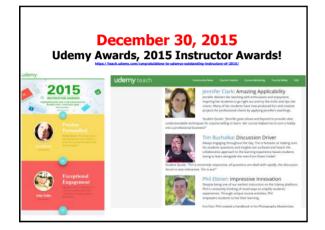




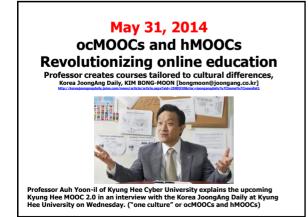
Coursera Removes Free Track From Some MOOCs

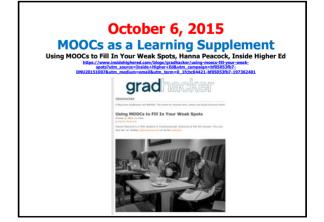
ive open or Massive open online course platform Coursen's in removing the option to complete some of the courses offered on the platform for free. Coursens has previously offered a free track and a paid track that averas an identify-comfed cartificate, but as of last week, learners will have to pay a fee in some courses to have their assignments graded. Largeness in those course who choses not to pay can atll browse the course materials, including discussions and assignments.

"We are on a mains with user the world by providing universal access to the best learning experience," Coursera said in a blog post. "To do this, we also need to have a business model that supports our platform, our patterns, ou content and everything we do for learners. The changes that





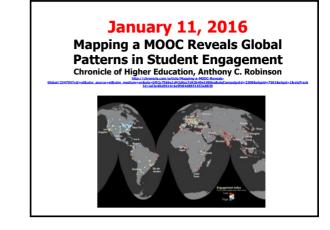




May 27, 2015 MOOC Participant Study Strategies

The Invisible Learners Taking MOOCs, George Veletsianos, Inside Higher Ed





Chapter 10: MOOC Pedagogy AMP: A Tool for Characterizing the Pedagogical Approaches of MOOCs Karen Swan, Scott Day, Leonard Bogle, and Traci van Prooyen University of Illinois Springfield

Figure 3. Ratings Metaphors

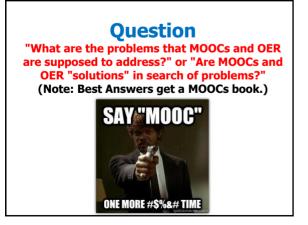


(objectivist)	1	7	3	4	5	(constructivist)
(teacher- centered)		12	з	4	5	(student-centered)
(convergent)	5	2	з	4	5	(divergent)
(less structure)	1	2	3	A	ĥ	(more structure)
(concrete)	1	2	\leq	4	5	(abstract)
(infrequent, unclear)	1	2	-	▶4	5	(frequent, constructive)
(unsupported)	1	1	3	4	5	(integral)
(unsupported)	1	7	3	4	5	(multifaceted)
(artificial)	4	3	>	4	5	(authentic)
(passive)	1	1/2	13	4	5	(generative)
Uda Cours		=				

Chapter 14: Creating a Temporary Spontaneous Mini-Ecosystem through a MOOC Paul Kim and Charlie Chung, Stanford University

Figure 2. Twitter thread announcing the MOOC





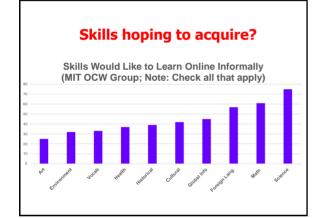
Self-Directed Learners (SDL) (Abdullah, 2001)

- Tend to be highly curious & generally enjoy learning
- View problems as challenges
- Desire change, willing to try new things,
- Persistent, self-disciplined, goal oriented
- Independent, self-confident
- Make learning meaningful and relevant
- Self-monitor, evaluate, and regulate one's learning

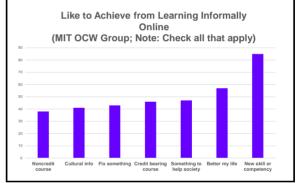
Study #1. MIT OpenCourseWare (OCW) Study

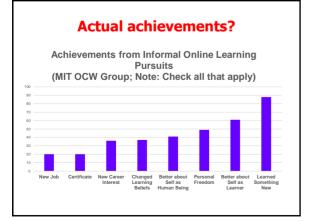
- E-newsletter subscription 156,000 people
 - 1,429 completed surveys
 - 613 completed open ended items
 - 50% over age 40
 - 76% males
 - North America (44 percent); Asia (23 percent); Europe (14 percent); South America (10 percent); Middle East (3 percent); Oz (2 percent).
 - Top countries in the MIT OCW subscriber list were the United States, India, China, Brazil, Nigeria, Pakistan, Iran, Canada, the UK, Taiwan, Indonesia, Mexico, and Egypt.

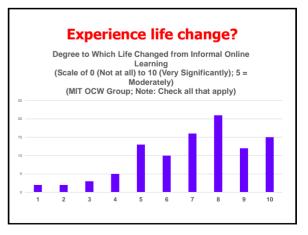




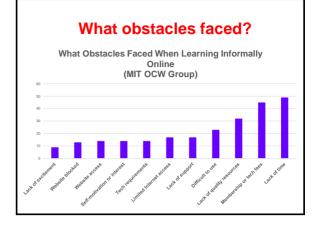












Open-Ended Questions

(28) Can you describe your most interesting or successful informal learning experience? What did you accomplish?
 (30) Why did you want to do this learning activity or task? What was your purpose or goals? Please describe what captured your interest.

(31) Has your life changed in a small or big way as a result of this informal learning activity or experience? If so, how?
(32) What was the key moment when learning informally with technology where you felt a personal change? If so, please describe that moment, as best you can.

(34) Did you face any obstacles or challenges during this time when learning informally with technology? If so, how did you overcome them?



MIT Data: Inspires and Changes Ed Systems (18-20 year old male, Middle East) When i was 14 years old i found MIT OCW during my search in..(physics) by Prof Walter Lewin looked really interesting and i became interested in physics. To be honest OCW changed my way of living and i found how beautiful physics is...informal learning is interesting because you can have access to some of the best courses provided by the best universities in the world...MIT OCW or Stanford open courses have also changed the educational system in some poor countries and have taught the teachers and professors in those countries how to teach a subject in a modern way.



MIT Data: Self-Taught on Social Media

(21-30 year old unemployed female, North America)

At first my purpose was to fulfill boredom ...After graduating with a MS, I was faced with unemployment. I took the opportunity to read blogs, watch Youtube videos, and more to learn about blogging and social media. Since than I have become well versed in social media and other business topics and started a business... I decided not to pursue a PHD because I am learning a more rapid pace. Instead of spending 5 years in school, I can be flexible and work on what I am learning.

SOCIAL



I learnt scheme from MIT OCW. Which helped in learning elisp/lisp. The programming techniques increased my software design knowledge. Algebra - mit ocw course was very useful, it helped me to refresh the basics of Digital signal processing. - I have learnt a lot of "applying my knowledge" than just learning the "theory" - Various online classes allow for multiple perspectives of the same topic thus showing us how the same thing can be applied in different fields.



MIT Data: Prepares to Reenter University (41-50 year old male, Middle East)

Most interesting experience of my own was my use of MIT OCW to refresh on Calculus. I purchased the textbook and followed one of several calculus options on the site. This was quite successful in re-introducing Calculus, as a prep to re-entering college 28 years after graduation - this time to study for a Master's.







I retired from education I became a lifestyle entrepreneur. I was trying to learn software to develop a business website for our sailing business. I discovered...Lynda.com. I was learning web development, video editing and photoshop. I realized that I could learn this software without going to a formal class and that was an "eureka" moment. My wife and I travelled and started a yacht delivery and training business that has taken us all over the world. We learned technology and social media as we travelled and ended up with many fantastic experienced in some very exotic places. We taught ourselves web development and have been figuring out online learning as we went. Now at 65 years of age we are going back to university to take a Computer Science Degree and start a new tech business relating to interactive educational media and games. All very exciting :-)

MIT Data: Retiree Develops New Hobby (70+ year old female, North America)

I'm am avid photographer and have developed skills for developing my own website for display of my photography and books I have written that include my photographs...I've had multiple careers, from

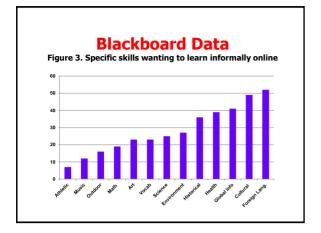
my photographs...I've had multiple careers, from science, to public administration, and information technology. The development of my art is a new and exciting experience.

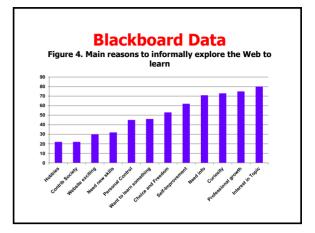


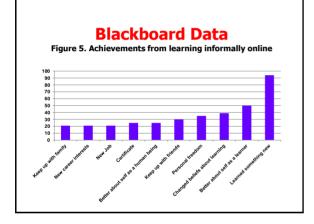


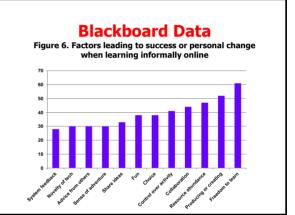
Blackboard MOOC Sample

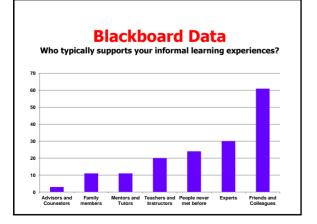
- Survey notice sent to 3,800 MOOC participants
- 159 completed surveys
 - 49 completed open ended items
 - 72% over age 40
 - 73% females
 - North America (81 percent); Asia (2 percent); Europe (6 percent); South America (1 percent); Middle East (2 percent); Australia/NZ (7 percent); Africa (1 percent)

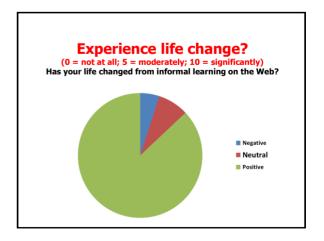












Goals and Motivations (Blackboard MOOC)

- Improve their job prospects
- Pursue personal interests or hobbies
- Seeking certification of some type
- Information seeking
- Means to expand one's formal learning



Life Changing Example #1

"I grew in every possible way. Not only were my own ideas validated but I was encouraged to go beyond what I thought possible - maybe I would call it "Extreme DOING" the other half of extreme learning no? These bold steps have shaped my personal and professional life to a profound level."



Life Changing Example #2

"Yes, I view the way I make choices, the way I raise my children, the way I teach, the way I negotiate international agreements fundamentally different. There are no huge differences in the decisions because the same set of values inform the decisions, but the approach, the motivations, the incentives are modified in substantial ways as a result."



Life Changing Example #3

Yes. I plan to focus my Ph.D. research on alternative forms of learning (informal DIY) and credit (like open badges) and the changes higher ed and employers will have to make to accept these forms of credit.



Life Changing Example #4

It has made my job much easier and it's been easier for me to execute certain tasks, making me more willing to take on bigger challenges. It was also shown me how enjoyable it is to learn a computer language. It opened my mind to considering possibilities in this area. It also made my husband respect my ability around computers a bit more.



Life Changing Example #5

Some of my friends tell me that they love the nuggets of information that I share with them when talking about things I learned during short commutes, etc. They have started listening to podcasts and share similar nuggets about the fields that they care about.



Life Changing Example #6

My life has changed in a big way. I used these new skills to create a small business that supplements my income. I couldn't use this income soley to support myself, but it does pay some bills.



Life Changing Example #7

Without the opportunity to learn informally, my options within my doctoral program would be limited to the ideas and experience of the three instructors in my program track. I would be graduating with a firm grasp of 20-year old dated ideas!



Life Changing Example #8

"Well, my life changed in that I thought I knew how important place and stories where to indigenous people...I learnt loads about indigenous culture and places and loads about augmented reality so now I know I have to change the project to allow students to have the same experience - them creating the content not me which I knew but didn't take it into consideration enough when planning the project...I wanted to create a project that made students (university) aware of how pervasive indigenous culture is contemporary Australia - how important place is to indigenous people and how their culture is so connected to place through stories..."



Life Changing Example #9

My life has changed in a big way - as the MOOC helped me to re-design one of the educational approaches in my workplace by providing a more interactive, innovative learning experience.



Life Changing Example #10

It has changed because I have learned new things and got more creative in my own field...The key moment was when I felt that the world is now becoming open as Dr. bonk describes it. I don't need to travel to different countries and spend my time and money trying to get a new idea or learn a new skill. I can have the access to quality materials, novel ideas and experts anywhere and any time.



Life Changing Bonus #1

Easy access to the Internet changed my life drastically. I quickly discovered Japanese manga (comics) and anime (animated TV shows). I spent the next three years absorbing Japanese culture and language voraciously. .. I got interested enough that I did 1 1/2 years of Japanese as an online correspondence course.

Life Changing Bonus #2

While taking a linear algebra course at Everett Community College, I supplemented my formal coursework with video lectures from

<http://ocw.mit.edu/courses/mathematics/18-06-linearalgebra-spring-2010/>. I actually began watching the lecture videos in anticipation of taking the class. While learning about eigenvectors and eigenvalues, I found the OCW lecture to be of great help. I watched it over and over until I understood the material thoroughly. As a result, I aced the formal test and completed it in under 10 minutes!

Information Seekers (DIYers): Personal Identity

"Today, we were trying to install a pool filter--we got instructions off You Tube. I also just bought a recumbent exercise bike--I looked at online reviews before making a choice." She then added, "Knowing that I did not need to ask an actual person for help was life changing. I am an introvert by nature, and I prefer to figure things on my own. Knowing that I can research informally on the Web is reassuring."



Information Seekers (DIYers): Personal Identity

"My informal learning experience did influence my social life, as my travel buddy for the convention thought that I was incredibly smart and tremendously "with it," because I knew so much about the city, what to see, and how to get places. It's nice (if not slightly narcissistic) to be appreciated for your knowledge."



Joining a Learning Community

"My key moment came when I discovered a community of like-minded scholars from around the world. I no longer felt isolated or disconnected. This has become my most valuable support network and I am grateful."



Joining a Learning Community (social and intellectual capital)

"Socially the impact was great as well because now I have friends I can talk technology with a lot."



Seeking Relevance

"I almost always listen to podcasts or .mp3 audio books, etc. when biking. After one session of learning some Korean language on a bike I was on my way home and chose to stop into a store for some take-out food. The conversation was almost identical to the lesson I had just learned. Although the questions and answers were simple and predictable small talk, it really was surreal at just how closely the real-world small talk conversation matched the mp3 that was produced a few years ago. It really gave me confidence that the audio recording method was not a joke."



Challenges and Issues

- Discern the quality of information
- Evaluate the quality
- Informal learning not taken seriously by their superiors
- Certificates and badges may reduce sense of fun and learning enjoyment



MOOC Challenges: Finding Appropriate Ones

"I think the hardest part is finding a MOOC that would work. It is not like there is a directory of MOOCs. You get out what you put in - the more you put in - in terms of writing and connecting the more you will get out of the experience. While the experience is informal - you need to give it more of a formal importance in your daily schedule."



Learning for Enjoyment Versus Credentials and Badges

"Just play around with ideas for alternatives to printed texts and don't be afraid to create your own, even if they're amateurish...I think we need to de-emphasise formal assessment and accreditation and encourage our playful side to see what is possible. Too much informal learning wants to get itself 'badged' or validated too quickly and this means its losing its genuine amateur status."



Learning for Enjoyment Versus Credentials and Badges





Results: Accomplishments (Kou, 2013)

• Research (7)

- Obtained information, references, clues, data and ideas on a topic (6)
- Had the potential of real life application (1)
- Formal Learning Context (23)
- Informal Learning, Self-Study (61)
- Social Context (30)
- Working Context (26)
- Across Context: Enhanced thinking (13)
- Across Context: Find solutions to solve a problem, find out how to do something (10)

Results: Accomplishments Formal Learning Context (Kou, 2013)

-(Before Program) Online learning helped me get prepared for, get interested in, or become confident in pursuing formal schooling or a higher degree (6)

Results: Accomplishments Formal Learning Context (Kou, 2013)

- fill intellectual hole
 I have been out of graduate school for many years and have had this intellectual hole for a while now which these courses are starting to fill for me
 - Feel better: developed self-respect, gained confidence, developed inner strength, gained sense of self-control - it ageve me confidence that my intelligence is valued by the best of universities
 - Starting on game sense or sen control
 it gave me confidence that my intelligence is valued by the best of universities.
 Yes indeed on a personal level I developed self respect for my own self, I started realizing the potential I had and I found out that I can make an impact in the society with the knowledge I gained
- Motivated to become a selfless human being
 It has also motivated me to become a selfless human being , if all of us spend some time and share our knowledge then one day everyone will be educated

Results- Accomplishment: Social Context

- Become cool in social life, attract interests from people around, got recognition for my knowledge and skills, opened up conversations
 - I got better grades in my studies, more appreciation, and more respect from people toward the activity I do.
 - Yes it has impect on my life in the way mostely me friend consult me when thay got some problem which thay can not solve.
 - I had new and interesting topic for discussions.

Results- Accomplishment: Social Context

- parenting-Became better parents, less stressful, make home school easier
 - Significant changes. We can say we are "homeschooling" and yet the curriculum and materials are available online and I can support my kids while they have the loose structure of the courses.... Knowledgeable teachers allow me to facilitate and not have to relearn everything.
 - Studying online at MIT has made me a better professor, a better dad

Results- Accomplishment: Work Context

- Got certificate for a profession, Got ready for job market, Did well on job interview, Got a job (7)
- Gained useful information, expertise, strategies and perspectives for my job
- Improved work performance, useful to work, retain my job, applied learning to job, impact on business (11) (Including teachers)
- Feel more confident or secure in my job (2)
- Career change or may lead to career change, Ability to switch jobs easily (3)

Results- Accomplishment: Across Context

- introduced to cultural diversity; more open minded, see things in different light
 - I have learned numerous approaches to viewing subject matter. The peer forum portion of the course and it's global reach is enriching.
 - I find myself more generally open to new ideas and want to engage in conversations and doing new things.
 - It introduced me to cultural diversity, which is almost nonexistent where I live. I think that this exposure to other cultures is one of the main reasons that I find racism absurd. It also interested me in many new activities...

Results- Accomplishment: Other Impact

- Changed learning pattern--open my eyes for online learning, engage in more online learning, take advantage of technology (5)
- Changed life pattern: spend time on learning instead of entertainment (2) Changed life pattern: take a different (better) course in life (1)
- Changed life pattern: become busier than before (1)
- Changed life pattern: life enriched (for older or disabled people), Developed interest in new activities, Found something challenging (4)
- Changed life plan: could retire but will continue to study (2) Do NOT have to change: can continue work due to easy access and flexibility of online learning (1)
- Impact on society: help addicted people turn to learning (1)
- Impact on the world: influence on foreign educational system (1)

Informal Learner Characteristics

- Strong intrinsic motivation, pride themselves being a "selfdirected learner" --- "my own pleasure" and values autonomy, considers it empowering
- Considers sharing as important part of educ/learning
- Takes pride in creating and contributing
- Enjoys the community of people with similar interests---but not necessarily the human f2f interaction



Informal Learner Characteristics: Values SDL

"I continue to research my interests for my own pleasure, especially on sites like Amazon for books and e-books, and have ongoing email alerts for journal content. I also use online sources for job hunting and professional networking."



Informal Learner Characteristics: Self-Reliant

"Knowing that I did not need to ask an actual person for help was life changing. I am an introvert by nature, and I prefer to figure out things on my own. Knowing that I can research informally on the Web is reassuring."



Components of Successful MOOC Learner

- Self-motivated
- **Enjoys sense of creating**
- Shares their creation
- Delights in wide range of info resources
- Takes pride in learning on their own



Time for a short break... ...

Slides at: TrainingShare.com Papers: PublicationShare.com Books: http://worldisopen.com/ Email: curt@worldisopen.com cjbonk@Indiana.edu





The R2D2 Method

- 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.





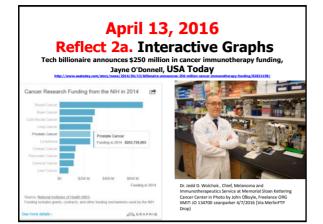


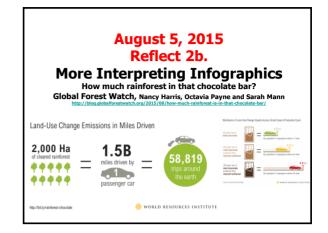
2. Reflective and Observational Learners

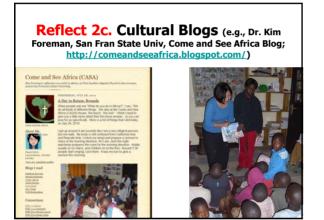
• Reflective and observational learners prefer to reflect, observe, view, and watch learning; they make careful judgments and view things from different perspectives











3. Visual Learners

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

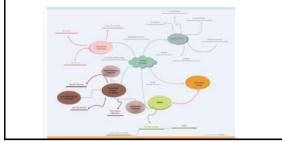






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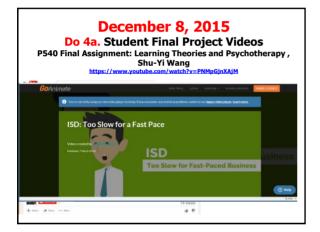
Concept Mapping and Timeline Tools (Bubbl.us, Cmap, Gliffy, Spicynodes, or Mindomo) http://www.spicynodes.org/index.html

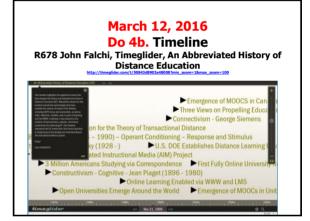


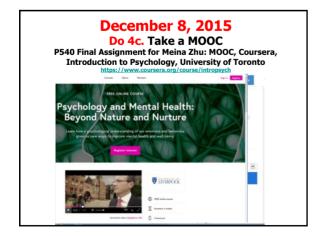
4. Tactile/Kinesthetic Learners

• 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.











Poll #2: Any ideas so far?



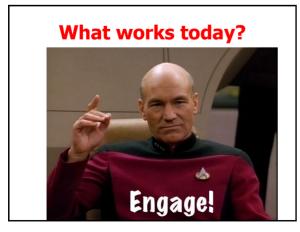
Needed: New Models of Motivation and Engagement

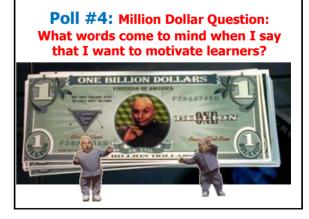




IF YOU DON'T STUDY

How do we engage online?





Motivation Research Highlights (Jere Brophy, Michigan State University)

- 1. Supportive, appropriate challenge, meaningful, moderation/optimal.
- 2. Teach goal setting and self-reinforcement.
- 3. Offer rewards for good/improved performance.
- 4. Novelty, variety, choice, adaptable to interests.
- 5. Game-like, fun, fantasy, curiosity, suspense, active.
- 6. Higher levels, divergence, dissonance, peer interaction.
- 7. Allow to create finished products.
- 8. Provide immediate feedback, advance organizers.
- 9. Show intensity, enthusiasm, interest, minimize anxiety.
- 10. Make content personal, concrete, familiar.

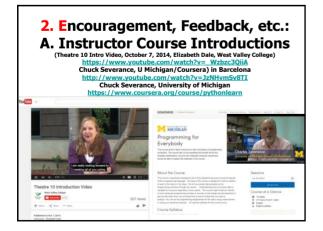


Framework: TEC-VARIETY for Online Motivation and Retention

- 1. Tone/Climate: Psych Safety, Comfort, Belonging
- 2. Encouragement, Feedback: Responsive, Supports
- 3. Curiosity: Fun, Fantasy, Control
- 4. Variety: Novelty, Intrigue, Unknowns
- 5. Autonomy: Choice: Flexibility, Opportunities
- 6. Relevance: Meaningful, Authentic, Interesting
- 7. Interactive: Collaborative, Team-Based,
- Community
- 8. Engagement: Effort, Involvement, Excitement
- 9. Tension: Challenge, Dissonance, Controversy
- 10. Yields Products: Goal Driven, Products, Success, Ownership









November 19, 2015 3. Curiosity, Fun: B. Something in the News New daddy longless named after 'Lord of the Bings'

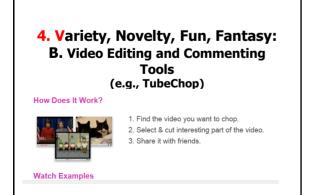
January 14, 2016 3. Curiosity, Fun: C. Something in the News

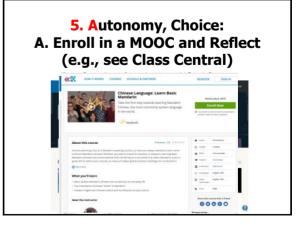
Move over T. rex, new dinosaur unveiled, Amanda Jackson, CNN





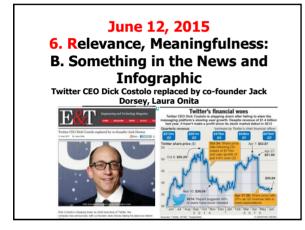


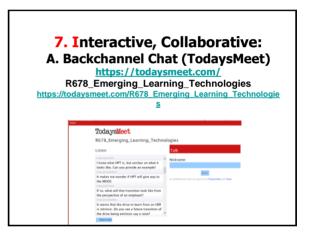


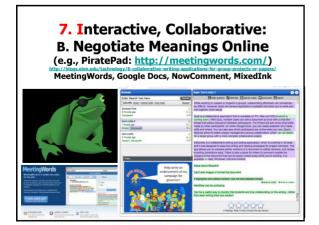


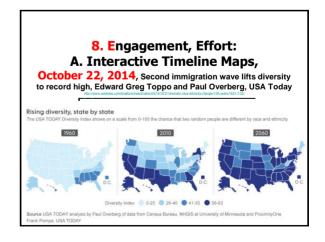


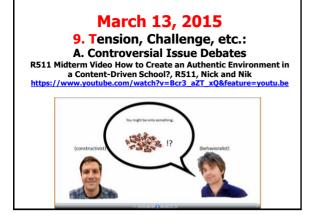








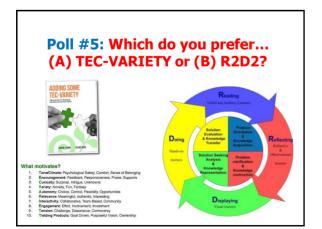


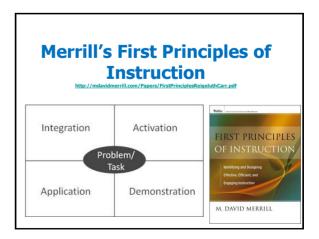


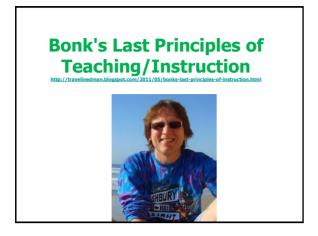


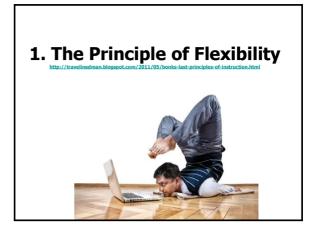




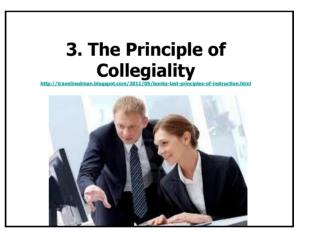






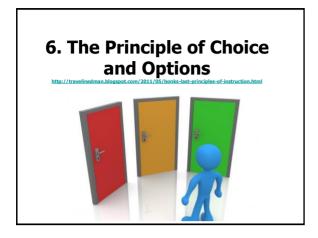


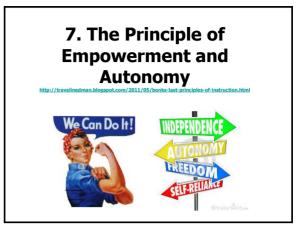


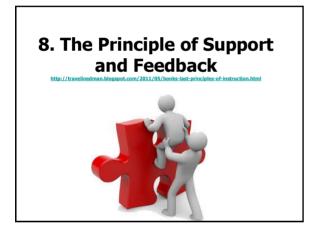




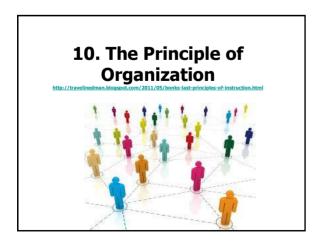


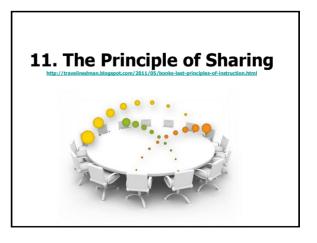








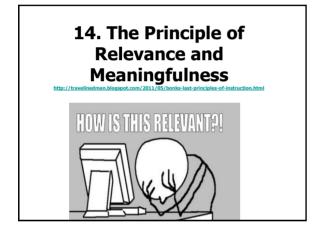




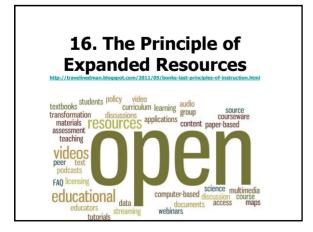
12. The Principle of Nontraditional Learning







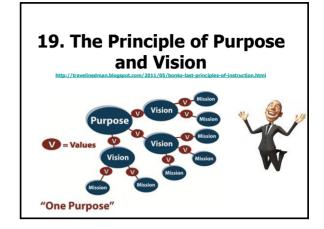




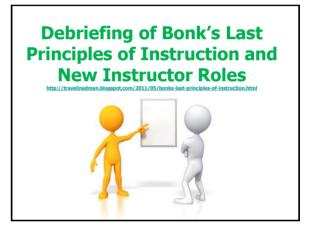
17. The Principle of Human Connectedness











Poll 6: 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.
- 5. 4-5. 6. 5-10.
- 7. More than 10.



