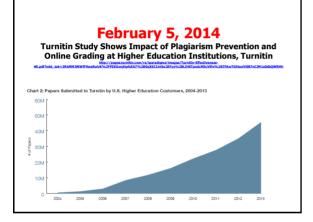
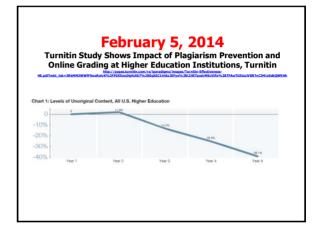
Best Practices for Online Learning: Introducing the R2D2 and TEC-VARIETY Models

Curtis J. Bonk, Professor, Indiana University cjbonk@indiana.edu http://mypage.iu.edu/~cjbonk/









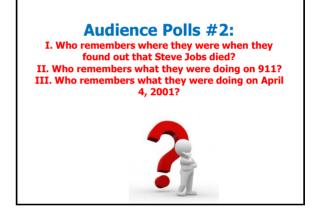












Charles Vest (April 4, 2001)

http://web.mit.edu/newsoffice/2001/ocw.html

"This is about something bigger than MIT. I hope other universities will see us as educational leaders in this arena, and we very much hope that OpenCourseWare will draw other universities to do the same. We would be delighted if -- over time -- we have a world wide web of knowledge that raises the quality of learning -- and ultimately, the quality of life -- around the globe."



October 31, 2013

The launch of OERu: Towards free learning opportunities for all students worldwide, BC Campus (Canada)

The launch of OERu: Towards free learning opportunities for all students worldwide

Imagine anyone in the world having access to a world-class education online for free, and getting revelentials for it. With the launch of Open Educational Resources University (CERu) on November 1, that's exactly what is now possible. The launch is a significant misstore in higher education globally, and marks a transition from an international collaboration prototype to a sustainable, scatable program of accessible CERu study.



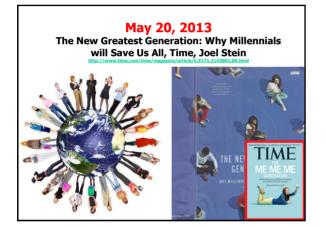
the efficial sum in takes place at Thompson Rivers Unversity in Kamiogo, B.G. for <u>face-bofese participants and</u> treamed live for registered virtual participants. The isonic conversit at the end of a two-day meeting of CBIM and/or takes and will be hoteled by Dr. Alam Disaver, President, Thompson Rivers University *Caulon* Dates, Chair of ented Vince Colleges (UVC) will give the keynote address and officially 'push the buttor' to sunch the CERu within

"The CERu issuch is an important melestane in the long campaign to make quality higher education more fielde an less expensive," and Dr John Daniel. "Getting it established will be a stow process because the concept is so matical. However, conting at a moment when higher education is in crisis because of hing costs and high youth representations." In 2019, includes on the two has the mathematical the analytic of the concept is so and the Article and the concept is so that the source of the concept is so the concept of th



Part I. Learning is Changing New Technologies = New Delivery Methods...









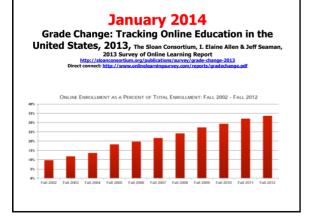


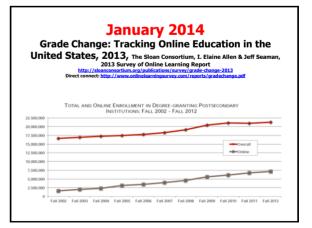






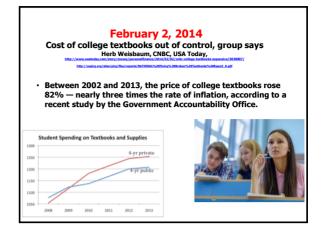


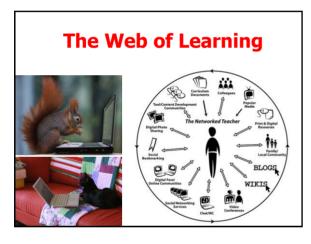




January 2014 Grade Change: Tracking Online Education i hited States, 2013, The Sloan Consortium, I. Elaine Allen & J 2013 Survey of Online Learning Report http://sloanconscritium.org/publications/survey/grade-change-2013 brett consolet: http://www.mindlearningurey.com/reports/gradechange.off									
		ROLLMENT IN		ANTING PO	STSECONDAR	Y			
	Total Enrolment	Annual Growth Rate Total Enrotement	Students Taking at Least One Onlese Course	Online Enrollment Increase over Previous Year	Annual Growth Rate Online Enrollment	Online Enroliment as a Percent of Total Enroliment			
Fall 2002	16,611,710	NA	1,602,970	NA	NA	9.6%			
Fall 2003	16,911,481	1.8%	1,971,397	368,427	23.0%	11.7%			
Fall 2004	17,272,043	2.1%	2,329,783	358,386	18.2%	13.5%			
Fall 2005	17,487,481	1.2%	3,180,050	850,267	36.5%	18.2%			
Fall 2006	17,758,872	1.6%	3,488,381	308,331	9.7%	19.6%			
Fall 2007	18,248,133	2.8%	3,938,111	449,730	12.9%	21.6%			
Fall 2008	19,102,811	4.7%	4,606,353	668,242	16.9%	24.1%			
Fall 2009	20,427,711	6.9%	5,579,022	972,669	21.1%	27.3%			
Fall 2010	21,016,126	2.9%	6,142,280	563,258	10.1%	29.2%			
Fall 2011	20,994,113	-0.1%	6,714,792	572,512	9.3%	32.0%			
Fall 2012	21,253,086	1.2%	7.126.549	411,757	6.1%	33.5%			

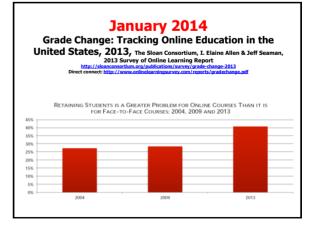
Γ













What was it that he said?





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.
- Novelty, variety, choice, adaptable to interests.
 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.

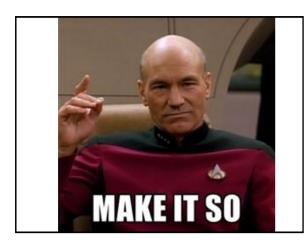


Framework #1: TEC-VARIETY for **Online Motivation and Retention**

- 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
- Interactive: Collaborative, Team-Based, 7. Community
- 8. Engagement: Effort, Involvement, Excitement
- 9. Tension: Challenge, Dissonance, Controversy
- 10. Yields Products: Goal Driven, Products, Success, Ownership

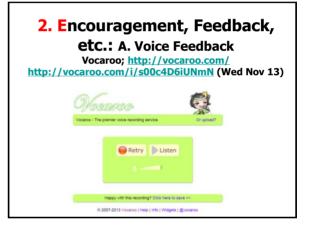
Examples of TEC-VARIETY











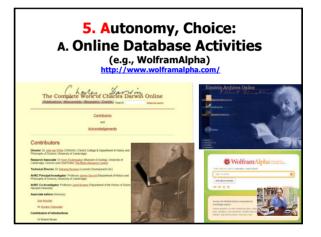


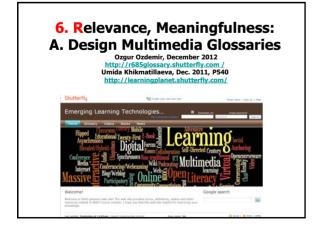


B. Online Quiz Games Jeopardy Labs https://jeopardylabs.com/play/ganttpardy										
Eve Got Your Back	The Seven C's	They Got Skillz and They Know It	"We Are the World"	Justice League	JeopardyLake	Build Broose Login				
		100			Enable a parented for part lengths 10 vic dim eff (1 bed) Family Technic Report Technic R	Decement of Decement/Labor Marchaet Via 620 for a United control of the - 4 Servey Servejuin rearranger - Private control (19) - Previous Servero				
		200				 I public ter of all over terrolation (the parameterization over 1) Back (set) Back (set) 				
		300			Annuality start, within the U manufacture of all mail is the U					
					but Sten	tida ware				







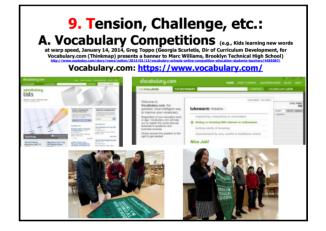




<section-header><section-header>











Commitments: Stop and Share:

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

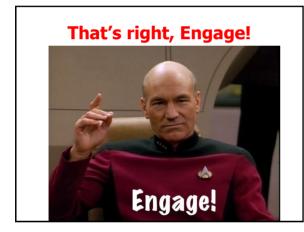
Tone/Climate Encouragement, Feedback Curiosity

Variety Autonomy Relevance Interactive Engagement Tension Yields Products

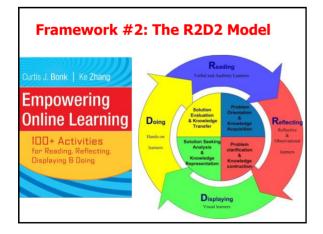


What did Jean-Luc Picard say?









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.









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



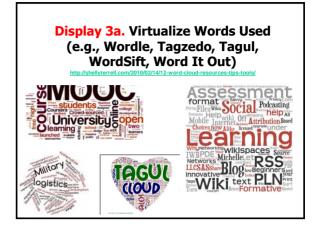




3. Visual Learners

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

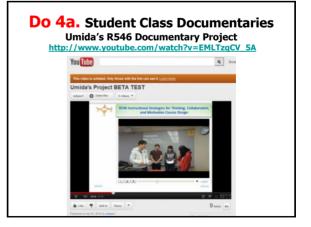


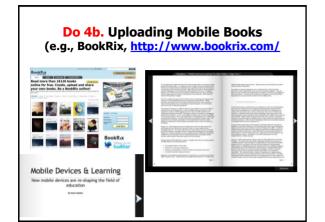






4. Tactile/Kinesthetic Learners 5. Tactile/kinesthetic senses can be engaged in the learning process are role play, dramatization, cooperative games, simulations, creative movement and dance, multi-sensory activities, manipulatives and hands-on projects.





Poll #4: What phase of the R2D2 Method did you get the most ideas from ?

- A. Read (Auditory and Verbal Learners)
- B. Reflect (Reflective Learners)
- C. Display (Visual Learners)
- D. Do (Tactile, Kinesthetic, Exploratory Learners)



