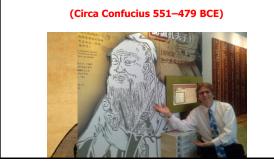
Education 20/20 Meets Education 4.0: Visions of Our Changing Learning World! Curtis J. Bonk, Professor, Indiana University Cibonk@indiana.edu http://curtbonk.com/

Talk Overview

- 1. Jobs are changing
- 2. Education 20/20 and the Role of the Instructor
- 3. First and Last Principles of Instruction
- 4. Megatrends of Learning: Engagement, Access, and Customization (30 ways that learning is changing...)
- 5. Future Trends and Ideas



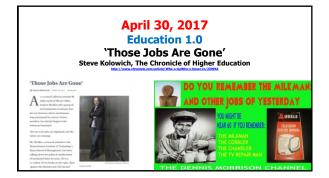




















Education 3.0...Education 20/20



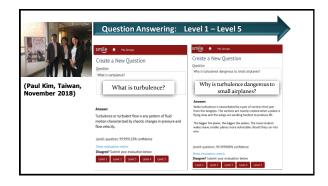
"In Education 3.0, classrooms would move away from lectures, such as this one, to having class time be spent on discussions and projects, using digital technology." (Per Wikipedia: https://en.wikipedia.org/wiki/Education 3.0

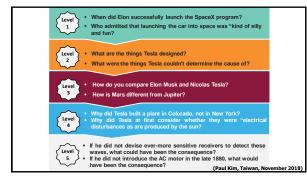
High First P	Education 3.0 enesis and Emergence of Education 3. the Education and its Potential for Afric Monday, by Derek Keats and 3. Philipp Schmidt, March 200 c://firstmonday.or/ofsi/index.bfm/article/wij/S257/1540 EDUCATION 2015					
	Characteristics					
	Primary role of professor	Source of knowledge	Guide and source of knowledge	Orchestrator of collaborative knowledge creation		
	Content arrangements	Traditional copyright materials	Copyright and free/open educational resources for students within discipline, 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 notworking outside traditional boundaries of discipline, institution, nation		

















August 21, 2016

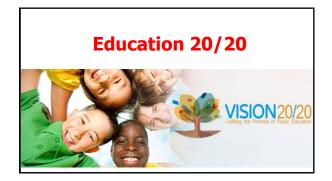
ST Future Economy Roundtable: Is Asia ready for the Fourth Industrial Revolution? The Straits Times



"It's quite clear that the established models of education have to change and adapt to the new environment."

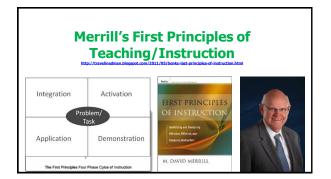


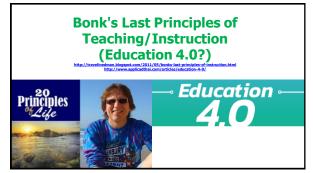
Clearly... Learning is Changing!





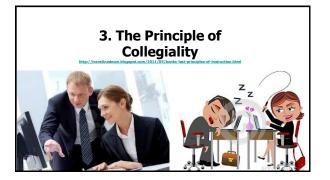










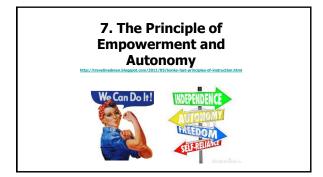


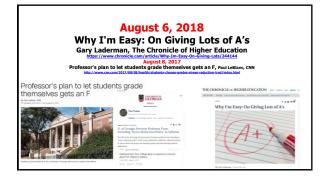
4. The Principle of Cheerfulness and Optimism

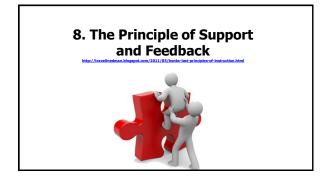




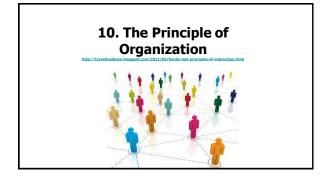


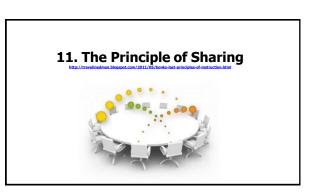


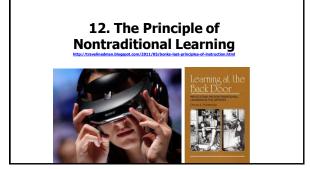




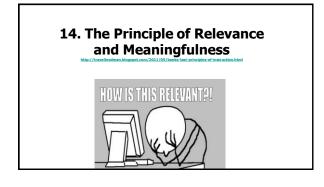






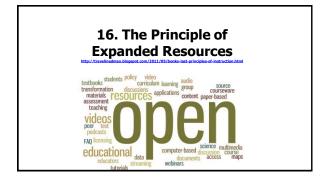


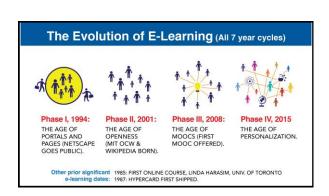




15. The Principle of Trial and Error (i.e., it is ok to fail)



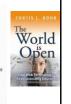




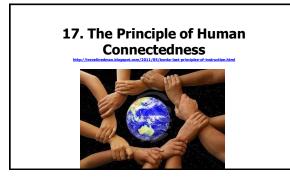
. The World is Open: How Web Technology Is Revolutioning Education

TEN OPENERS: (WE-ALL-LEARN)

- 世界是开放的 The World Is Open
 - Web Searching in the World of E-Books
 E-Learning and Blended Learning
 Availability of Open Source and Free Software
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 Learning Object Repositories and Portals
 Learner Participation in Open Information Con
 Electronic Collaboration
 Alternate Reality Learning
 Real-Time Mobility and Portability
 Networks of Personalized Learning





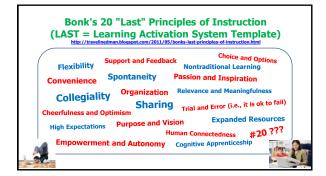


18. The Principle of **Cognitive Apprenticeship**

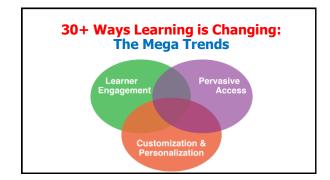












How Learning is Changing: Mega Trend #1. Learner Engagement







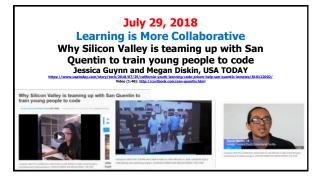
















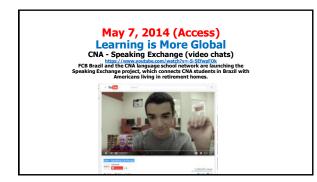


How Learning is Changing: Mega Trend #2. Pervasive Access





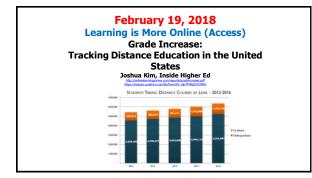














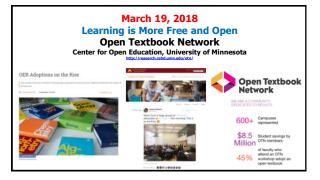














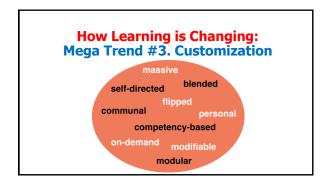




















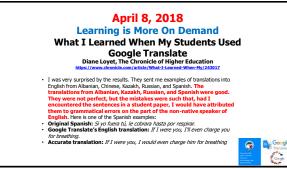




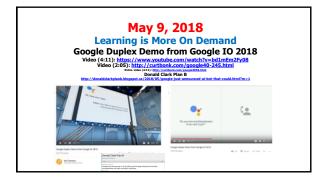






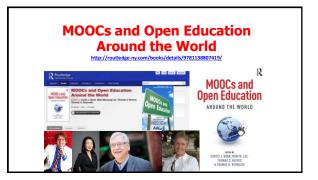




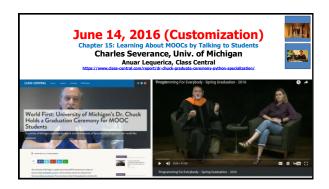




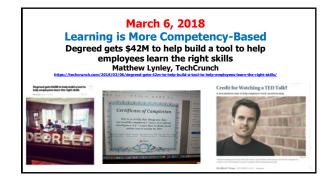






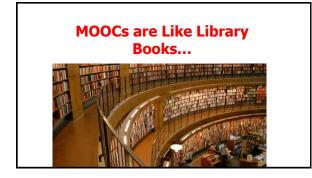








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The Learning Revolution is coming within reach!





