Education 20/20: Visions of Our Changing Learning World!

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





Talk Overview

- 1. Education 20/20 and PBL
- 2. New Roles of the Instructor (for PBL?)
- 3. First and Last Principles of Instruction (for PBL?)
- 4. Artificial Intelligence vs. Intelligence Augmentation
- 5. Megatrends of Learning: Engagement, Access, and Customization (30 ways that learning is changing...)
- 6. Future Trends and Ideas







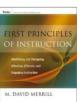


What happens to sleeping students?



Merrill's First Principles of Teaching/Instruction











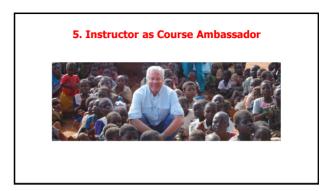








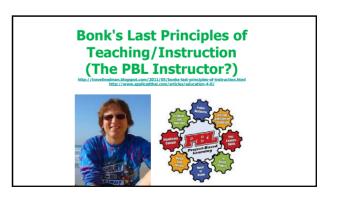


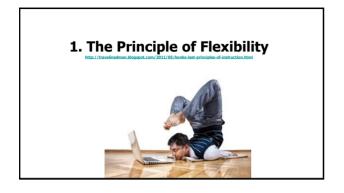




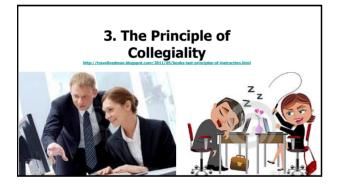




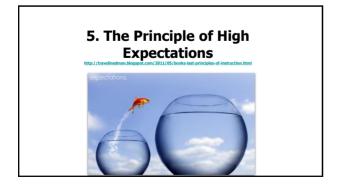


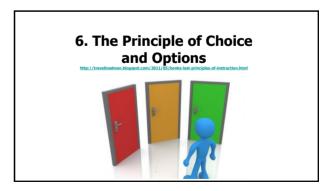


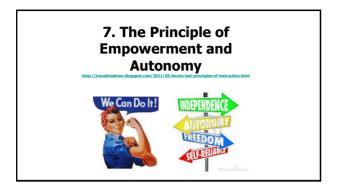


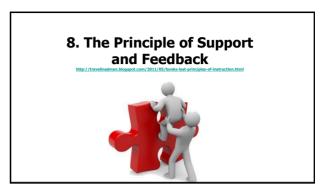


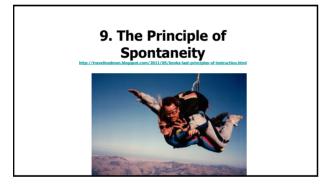


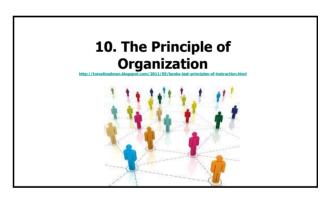




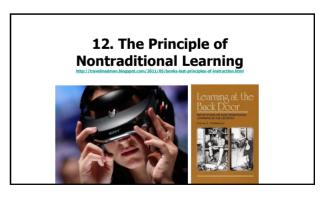
















14. The Principle of Relevance and Meaningfulness



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





16. The Principle of Expanded Resources



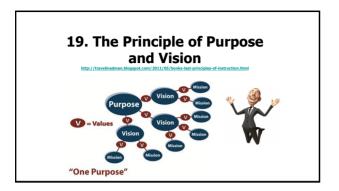
17. The Principle of Human Connectedness



18. The Principle of Cognitive Apprenticeship



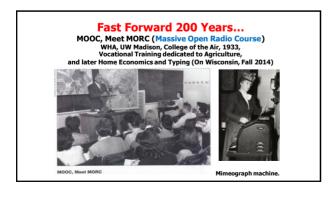




















Education 3.0...



"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.acra/wiki/Education 3.0

Education 3.0

The Genesis and Emergence of Education 3.0 in Higher Education and its Potential for Africa First Monday, by Derek Keals and J. Philips Schmidt, March 2007 http://firstmonday.org/ois/index.hub/fm/article/view/1625/1540

Table 1: Educational possession in higher advertises 1.0

Primary role of Source of Avoidable 10.0

Godds and source of Conditional Conference of Conditional Conference of Conditional Conference of Conference of

Now What is Education 4.0? "Innovation-producing education. Learn more in: Development of Individual Agency within a Collaborative, Creative Learning Community" http://www.igi-alobal.com/dictionary/education-40/41755 https://thinc.in.th/engadmission/education-40/41755 https://thinc.in.th/engadmission/education-4.html (Chula Engineering) 1.0: Dictation of Knowledge 2.0: E-Learning Knowledge: a commodity in modern world Silis: 21st century skill Attitude: Can-Do Attitude 3.0: Knowledge-Producing 4.0: Innovation-Producing

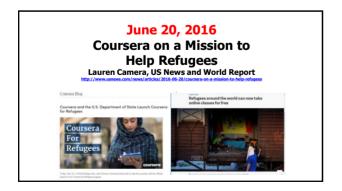






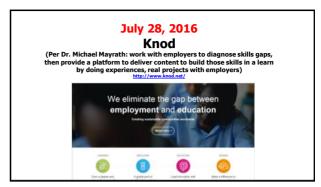










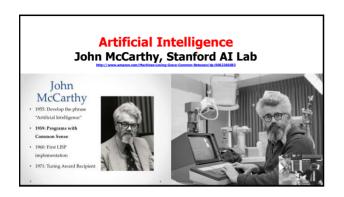


































The World is Open



The World is Open



The World is Open



The World is Open



The World is Open



July 2016 The Awareness Problem: Opening the Textbook: Educational Resources in U.S. Higher Education, 2015-2016 1. Elaine Allem and Jeff Seaman, Babson Survey Research Group

