



Bloom's Taxonomy is Blooming Technology

Bloom's Taxonomy Going Digital

Primary Presenter: Maryly Skallos
Institution: Muskegon Community College

Co Presenter: Julia VanderMolen, Ph.D
Institution: Davenport University





Disclosure Statement

- The planner and presenter do not have any financial arrangements or affiliations with any commercial entities whose products, services, or research may be discussed in this activity.
- No commercial funding has been accepted for this presentation.





Session Rules of Etiquette

- Please turn off your cell phone/pager
- If you must leave the session early, please do so as discreetly as possible
- Please avoid side conversation during the session

Thank you for your cooperation!





Introduction

- Transforming learning for a new educational era
 - The future is already here – its just not evenly distributed
 - » William Gibson





Session Objectives

- Describe Bloom’s Taxonomy (old vs new) and Web 2.0
- Select appropriate Web 2.0 tools to address the six levels of Bloom’s Taxonomy
- Create one lesson which incorporates a Web 2.0 activity to facilitate student collaboration and learning



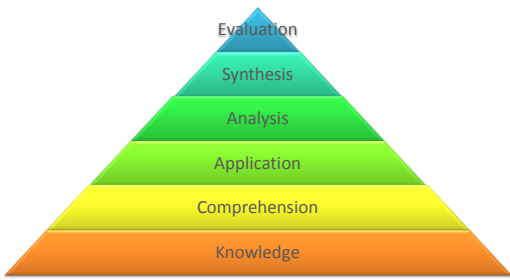


What Participants Will Gain

- Participants will gain an understanding how Web 2.0 tools can be used to address the six levels of Bloom’s Taxonomy
- Participants will learn a minimum of 3 Web 2.0 tools fo reach of the level of Bloom’s Taxonomy
- Participants will brainstorm one to two lessons to integrate into his/her classroom

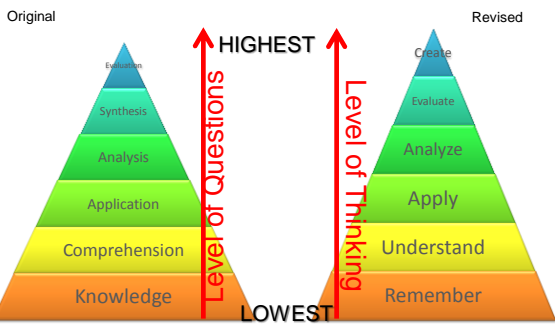


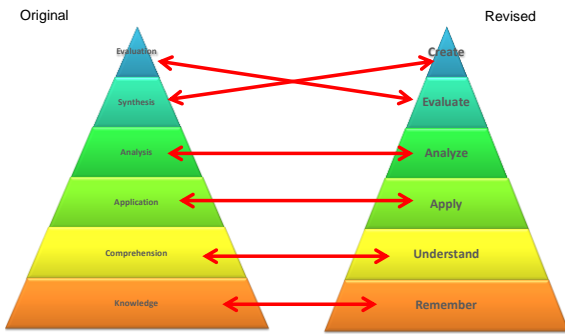
Bloom's Taxonomy (original – 1956)



Bloom's Taxonomy (updated – 2001)

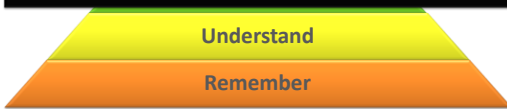






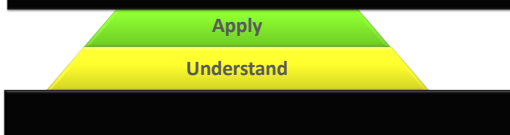
Bloom's as a Learning Process

Before we can **understand** a concept, we have to **remember** it!



Bloom's Taxonomy (updated)

Before we can **apply** the concept, we must **understand** it.



Bloom's Taxonomy (updated)

Before we can **analyze** the concept, we must **apply** it.



Bloom's Taxonomy (updated)



Before we can **evaluate** its impact, we must have **analyzed** it.

Bloom's Taxonomy (updated)

Before we can **create**, we must have





Bloom's as a Learning Process

- Before we can **understand** a concept, we have to **remember** it
- Before we can **apply** the concept, we must **understand** it
- Before we **analyze** it, we must be able to **apply** it
- Before we can **evaluate** its impact, we must have **analyzed** it
- Before we can **create**, we must have **remembered, understood, applied, analyzed, and evaluated**

Source: VanderMolen, J. (2012). Blooming with Technology. Michigan State University Educational Technology Conference, East Lansing, MI. Retrieved from <http://www.techrteach.info/msubloomingtech.htm>





What is Bloom's Digital Taxonomy?

- It is the **application** of **digital collaboration tools** or **Web 2.0 tools** to engage students at each level of Blooms Taxonomy.





Web 2.0 Characteristics

- Web-based applications ("cloud" computing)
- Many are free and easy to use
- Applications are platform independent
- Interactive, social software
- Convergent with ubiquitous mobile networking







Remembering

- Del.ici.ous
– <http://delicious.com/>
- Diigo
– <http://www.diigo.com>
- Evernote
– <http://evernote.com>





Understanding

- Bubbl.us
– <http://bubbl.us>
- Twitter
– <http://www.twitter.com>
- LetterPop
– <http://www.letterpop.com>





Applying

- Voki or VoiceBoards
 - <http://www.voki.com>
- Scribble Maps
 - <http://www.scribblemaps.com>
- Screencast-o-matic
 - <http://www.screencast-o-matic.com>





Analyzing

- Google Docs
 - <http://docs.google.com>
- Create-a-Graph or other Infograph tool
 - <http://nces.ed.gov/nceskids/createagraph>
- RSOE EDIS
 - <http://hisz.rsoe.hu/alertmap/index2.php>





Evaluating

- Rcampus or iRubric
 - <http://www.rcampus.com/indexrubric.cfm>
- Tricider
 - <http://tricider.com/en/t>
- TodaysMeet
 - <http://todaysmeet.com/>





Creating

- Glogster
– <http://edu.glogster.com>
- VoiceThread
– <http://voicethread.com>
- MakeBeliefComix
– <http://www.makebeliefscomix.com/Comix>
- Prezi
– <http://www.prezi.com>





Questions?





Summary

- Bloom's Taxonomy has been updated
- Many different Web 2.0 tools are available
- Don't be shy to ask students to help with the hardware

- Most important: Remember to have **FUN!**





Thank You!

Maryly Skallos

Maryly.Skallos@ellucian.com
Maryly.Skallos@muskegoncc.edu

Julia VanderMolen

jvandermolen@davenport.edu



© 2010 Ellucian. All rights reserved.



References

Anderson, L.W. (Ed.), Krathwohl, D.R.(Ed.), Airasian, P.W., Cruikshank, K.A., Meyer, R.E., Pintrich, P.R., Raths, J., & Wittcock, M.C. (2002). *A taxonomy for learning, teaching, and assessing: A revision of Bloom's Taxonomy of Educational Objectives (Complete edition)*. New York: Longman.

- Bloom, B.S. (1956). *Taxonomy of Educational Objectives: The Classification of Educational Goals. Handbook 1; Cognitive Domain*. New York: David McKay CO. Inc: pp. 7-8
- Churches, A. (2007). Edorigami, blooms taxonomy and digital approaches. Retrieved from <http://edorigami.wikispaces.com/Blom%27s+and+ICT+tools>
- Kay, R. (2001). Evaluating learning, design, and engagement in web-based learning tools (WBLTs): The WBLT Evaluation Scale. *Computers in Human Behavior*, 27, 1849-1856.





References

- Fisher, M. (2009). Digital blooms pyramid. Retrieved from <http://www.digigogy.com>
- Meyer, K. (2010). A comparison of Web 2.0 tools in a doctoral course. *Internet and Higher Education*, 13, 226-232.
- Rahmat, M., & Saudi, M.M. (2007). E-learning assessment application based on Bloom taxonomy. *The International Journal of Learning*, 14(9), 1-12.
- Tansey, R., Schopierayp, S., Boland, E., Lane, F., & Pruett, S. (2009). Examining technology-enhanced coursework in rehabilitation counselor education using Bloom's taxonomy of learning. *Rehabilitation Education*, 23(2), 107-118.
- VanderMolen, J. (2012). Bloom's taxonomy goes digital.