

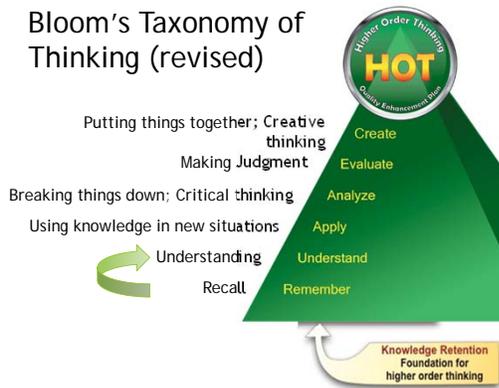
Promoting HOT and Active Learning Using Educational Technology

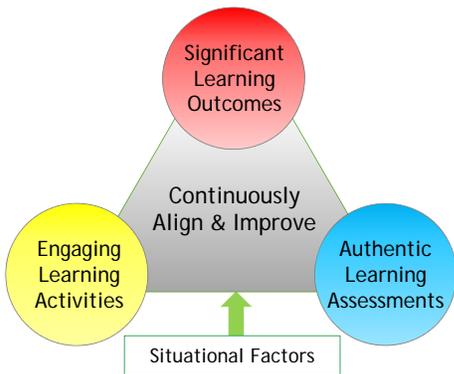
Center for Innovative Learning
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Today's Session

- ▶ Review each level of Bloom's Revised Taxonomy.
- ▶ Discuss the definitions for higher order thinking (HOT) and active learning.
- ▶ Identify the use of educational technology tools that promote HOT and active learning.
- ▶ Examine how to integrate technology tools into the course design process.
- ▶ Examine criteria for selecting educational technology tools.

Bloom's Taxonomy of Thinking (revised)





Adapted from Fink, L.D. (2003). *Creating Significant Learning Experiences*, Jossey-Bass.

Instructor vs. Student Centered

Instructor Centered Strategies

- ▶ Engage students in higher order thinking.
- ▶ Faculty role is "Sage on the Stage".
- ▶ Examples: Presentation, Demonstration.

Student Centered Strategies

- ▶ Students make choices.
- ▶ Faculty role is "Guide on the Side" (facilitator).
- ▶ Authentic & engaging.
- ▶ Examples: Discussion, Team Based Learning, Problem-based Learning.

Educational Technology Tools

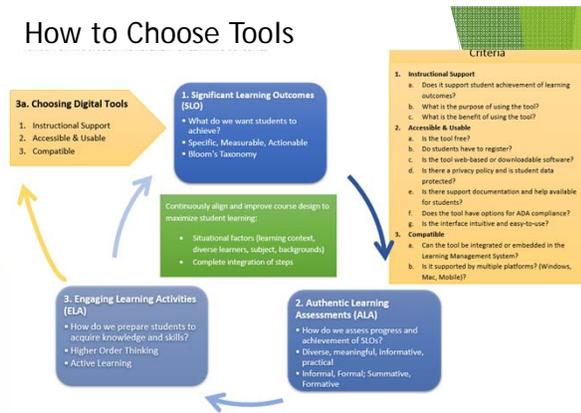
- ▶ A brief history
 - ▶ Web 2.0, Web-based, digital, EdTech tools
- ▶ Process and Use
 - ▶ Aligning tools with course objectives and outcomes.
 - ▶ Select tools to create or reuse content.
 - ▶ Use tools to promote communication & collaboration.
 - ▶ Identify tools to address learning modalities and learner support.



Searching for Tools

- ▶ Google
 - ▶ Educational Technology Tools
 - ▶ EdTech
- ▶ Twitter
 - ▶ #edtech
 - ▶ #eduapps
 - ▶ #learning
- ▶ Blogs
 - ▶ <http://www.freetech4teachers.com/>
 - ▶ <http://elearningindustry.com>
 - ▶ <http://www.scoop.it/t/allthingsedtech>

How to Choose Tools



Design process model adapted from Fink, D. A self-directed guide to designing courses for significant learning
<http://www.deefinkandassociates.com/GuidetoCourseDesignAug05.pdf>

Example: Applying

Tool Name What is it called?	Description What does the tool do?	Target Audience Who will use this tool? (instructor-centered, learner-centered, both)	Role What is the role of the tool? (content creation, content consumption, communication, engagement, collaboration, support)	eLearning Support How does it support learning outcomes and/or activities? (learner-learner, learner-content, and/or learner-instructor interactions)	Accessibility and Usability What is the degree of accessibility and usability?
WordPress Blog	Generate original content in multiple formats that can be made public and sharable with others.	Learner-centered	Engagement, collaboration	Enables students to become co-creators and sharers of course content and to share thoughts, comments, and critical thinking about subject matter. LO Example: Apply instructional design methodologies to various situations.	Free to use. Registration required. Embeddable in LMS. Provides tools for complying with ADA.

ED Tech Demo: Voice Thread

- ▶ What is Voice Thread?
 - ▶ Media-centric discussions
 - ▶ No graphic design skills needed
 - ▶ Free account with many options
 - ▶ Can upload PPTs, videos and images
- ▶ How hard is it to learn?
- ▶ Reflection: What are some ways you could see it being used?



ED Tech Demo: Peerwise

- ▶ What is Peer Wise?
 - ▶ Supports student creation of multiple choice
 - ▶ Allows other students to answer questions, rate, and comment
 - ▶ Tracks student contributions for grading purposes
 - ▶ Encourages higher level thinking & actively engages students
 - ▶ Supports teamwork
 - ▶ Free account
- ▶ How hard is it to learn?
- ▶ Reflection: What are some ways you could see this tool being used in your work?



ED Tech Demo: Kaltura

- ▶ What is Kaltura?
 - ▶ Interactive and open video platform
 - ▶ Can record, upload and create videos
 - ▶ Integrates into Canvass learning management system
 - ▶ Can deliver high quality video to any device
- ▶ Is it hard to learn?
- ▶ Reflection: What are some ways you could see this being used?



ED Tech Demo: Quizlet

- ▶ What is Quizlet?
 - ▶ Software for learners and instructors
 - ▶ Provides study tools (flash cards, games and quizzes) for any curriculum
 - ▶ Create your own or use tools already created
 - ▶ Use on any device
 - ▶ Free for students; small fee for instructors
- ▶ Reflection: What are some ways you could see it being used?



ED Tech Demo: TEDEd

- ▶ What is TEDEd?
 - ▶ Engaging lesson creator using videos.
 - ▶ Can use any TED-Ed Original, TED Talk.
 - ▶ Can use your own videos or ones already created.
 - ▶ Easy to use template.
- ▶ How hard is it to learn?
- ▶ Reflection: What are some ways you could see it being used?



Evaluating

Tool Name What is it called?	Description What does the tool do?	Target Audience Who will use this tool (instructor-centered, learner-centered, both)	Role What is the role of the tool? (content creation, content consumption, communication, engagement, collaboration, support)	eLearning Support How does it support learning outcomes and/or activities? (learner-learner, learner-content, and/or learner-instructor interaction)	Accessibility and Usability What is the degree of accessibility and usability?
PeerWise	Students use PeerWise to create and to explain their understanding of course related assessment questions, and to answer and discuss questions created by their peers.				



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