

Equitably Engaged

Designing for Accessibility in the Classroom



Objectives

- Describe the basic principles of universal design for learning.
- Summarize why UDL is important for education professionals.
- Explore technology that supports the UDL framework.
- Apply the principles of UDL to lessons by using the described tools.

Who am I? teacher

Tand the Beast





$\prod \prod G$ children have a developmental disability

These children are in your

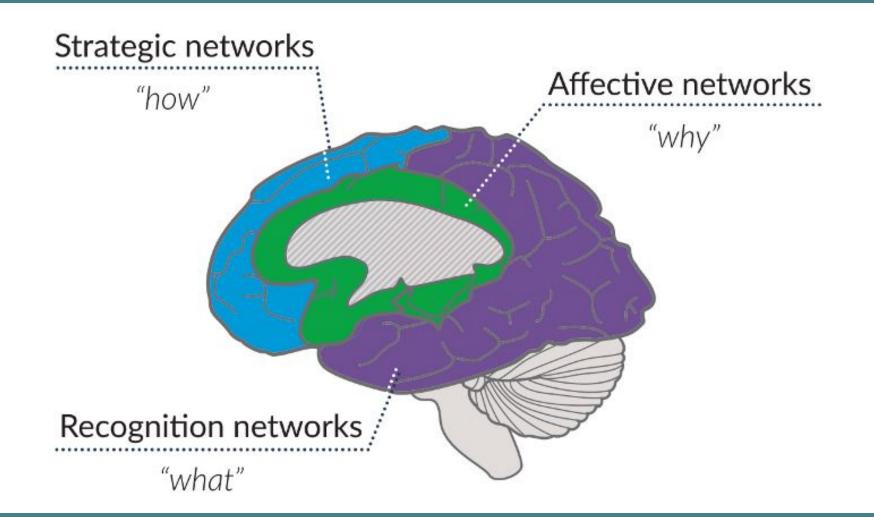
CLASSROOM - LIBRARY - SCHOOL

We can teach like this...

Or we can teach like this.

universal design for learning

- Multiple means of engagement
- Multiple means of representation
- Multiple means of action & expression



everyone o W7JJJS





audio tools

Engagement

- Vary demands to optimize challenge
- Facilitate personal coping skills

Representation

- Alternatives for visual information
- Support decoding of text
- Highlight critical features & big ideas

Action & Expression

- Optimize access to assistive technology
- Graduated levels of support

Online Voice Recorder

https://online-voice-recorder.com/

- Quick, easy, and downloads MP3
- Limited to 5 minutes

Voki

www.voki.com

- Create your own avatar.
- Record -- or write!
- Stored for 14 days without login



images

Engagement

• Optimize value & authenticity

Representation

- Alternatives for auditory information
- Clarify vocabulary and symbols
- Support decoding of text
- Activate background knowledge
- Highlight critical features & big ideas

Action & Expression

• Vary methods for responses

Pixabay & Unsplash

www.pixabay.com www.unsplash.com

- Thousands of images
- Creative Commons
- Easy to search





Engagement

- Optimize choice and autonomy
- Optimize value and authenticity

Representation

- Alternatives for auditory/visual info
- Clarify vocabulary & symbols
- Highlight critical features & big ideas

Action & Expression

- Vary methods for responses
- Use multiple media for construction

Loom

www.loom.com

- Screen-recording tool
- Ability to highlight, edit...
- Limited to 5 minutes

Prezi https://prezi.com

- Create your own videos.
- Integrates with Unsplash!
- Automatic transcription.

Standardized assessment can be...

exclusive inauthentic boring



authentic assessment

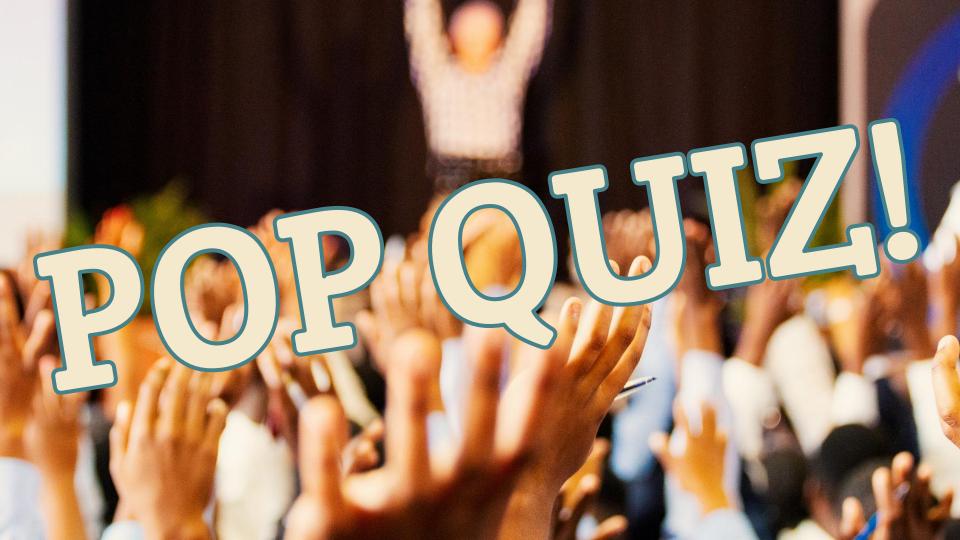
Recruits student interest (Choice, autonomy) Uses multiple tools for construction / composition Encourages self-assessment and reflection

It's not about the technology.

It's not about the tools.

It's about the... ICATION

Start with the goal. UDL ensures ALL students can ACCESS challenging content.





UDL CAST Site

- <u>https://udlguidelines.cast.org/</u>
- Guideline visuals
- Resources & articles

YouTube Channel

- https://www.youtube.com/user/UDLCAST
- Webinars, personal stories



Contact

- Audra Vanderland, M.S.
- audravanderland@me.com
- Twitter: @cascadesofbooks



Resources

CAST, Inc. (n.d.). The UDL guidelines. <u>https://udlguidelines.cast.org/</u>

CDC. (2021, Feb 26). *Developmental disabilities*. <u>https://www.cdc.gov/ncbddd/developmentaldisabilities/index.html</u>

University of Buffalo. (2021). *Universal design for learning*. Center for Education Innovation. <u>http://www.buffalo.edu/ubcei/enhance/teaching/universal-design.html</u>

Slide 1: JESHOOTS-com. (2014, Aug 5). *Computer-notebook-coffee-workspace-820281* [Photograph]. Pixabay. <u>https://pixabay.com/photos/computer-notebook-coffee-workspace-820281/</u> CC Zero

Slide 3: JillWellington. (2015, Sept 1). *Little-girl-reading-garden-child-912380* [Photograph]. Pixabay. https://pixabay.com/photos/little-girl-reading-garden-child-912380/ CC Zero

Slide 4: Vanderland, A. (2018). Mom, daughter, & Mickey [Photograph]. CC-BY-NC-ND.

Slide 5: Schneider, I. (2016, Feb 18). *Two person standing on gray tile pacing photo* [Photograph]. Unsplash. <u>https://unsplash.com/photos/TamMbr4okv4</u>

Slide 6: Jillrose999. (2020, June 2). *Crowd-kids-children-people-blurry-5244834* [Photograph]. Pixabay. https://pixabay.com/photos/crowd-kids-children-people-blurry-5244834/ CC Zero

Slide 7: 12019. (2013, Feb 22). *Kansai-university-japan-school-84363* [Photograph]. Pixabay. https://pixabay.com/photos/kansai-university-japan-school-84363/ CC Zero

Slide 8: Antranias. (2015, July 14). *Storm-storm-damage-trees-forest-840962* [Photograph]. Pixabay. <u>https://pixabay.com/photos/storm-storm-damage-trees-forest-840962/</u> CC Zero

Slide 9: Spassov, S. (2015, Dec 29). *Interior view of white building photo* [Photograph]. Unsplash. <u>https://unsplash.com/photos/k87dHceae1w</u> CC Zero

Slide 10: Darshan, D. (2017, Nov 6). *Aerial photography of road photo* [Photograph]. <u>https://unsplash.com/photos/SxQn-Or41ok</u> CC Zero

Slide 11: CAST (2018). *UDL and the learning brain*. Wakefield, MA: Author. Retrieved from http://www.cast.org/products-services/resources/2018/udl-learning-brain-neuroscience

Slide 12: Fauzan, S. (2018, June 1). *Person holding gold trophy photo* [Image]. Unsplash. <u>https://unsplash.com/photos/AmhdN68wjPc</u> CC Zero

Slide 13: Theglassdesk. (2016, Jan 2). *Turntable-music-laptop-audio-1109588* [Photograph]. Pixabay. https://pixabay.com/photos/turntable-music-laptop-audio-1109588/ CC Zero

Slide 14: Attari, A. (2018, May 18). *Boy near white wooden shelf photo* [Photograph]. Unsplash. https://unsplash.com/photos/SBIak0pKUIE CC Zero

Slide 15: Pexels. (2016, Nov 21). *Audio-microphone-1844798* [Photograph]. Pixabay. <u>https://pixabay.com/photos/audio-microphone-1844798/</u> CC Zero

Slide 16: Skitterphoto. (2017, July 16). *Girl-taking-picture-camera-field-2510931* [Photograph]. Pixabay. https://pixabay.com/photos/girl-taking-picture-camera-field-2510931/ CC Zero

Slide 17: Rirri. (2020, July 28). *White and blue book on white table photo* [Photograph]. Unsplash. https://unsplash.com/photos/f0yNfubusxE CC Zero

Slide 18: Stocksnap. (2015, March 30). *Videographer-cameraman-video-camera-698667* [Photograph]. Pixabay. <u>https://pixabay.com/photos/videographer-cameraman-video-camera-698667/</u> CC Zero

Slide 19: www_slon_pics. (2017, December 25). *Computer-laptop-blank-empty-screen-3036166* [Photograph]. Pixabay. <u>https://pixabay.com/photos/computer-laptop-blank-empty-screen-3036166/</u> CC Zero

Slide 20: F1Digitals. (2018, Aug 18). *Man-men-hand-person-people-male-3653346* [Photograph]. Pixabay. <u>https://pixabay.com/photos/man-men-hand-person-people-male-3653346/</u> CC Zero

Slide 21: Startupstockphotos. (2015, Jan 8). *Children-win-success-video-game-593313* [Photograph]. Pixabay. https://pixabay.com/photos/children-win-success-video-game-593313/ CC Zero

Slide 22: Padrinan. (2020, March 15). *Screw-pin-engineering-gold-tool-4929711* [Photograph]. Pixabay. https://pixabay.com/photos/screw-pin-engineering-gold-tool-4929711/ CC Zero

Slide 23: JoshuaWoroniecki. (2020, April 26). *Road-highway-journey-asphalt-5089188* [Photograph] Pixabay. https://pixabay.com/photos/road-highway-journey-asphalt-5089188/ CC Zero



Slide 24: JamiePLopes. (2019, April 30). *Quiz-business-conference-man-4168371* [Photograph]. Pixabay. https://pixabay.com/photos/quiz-business-conference-man-4168371/ CC Zero

Slide 25: Hermann. (2014, Oct 14). *Books-education-school-literature-485479* [Photograph]. Pixabay. https://pixabay.com/photos/books-education-school-literature-485479/ CC Zero

Slide 26: JESHOOTS-com. (2014, Aug 15). *Iphone-hand-screen-smartphone-apps-41031*1 [Photograph]. Pixabay. <u>https://pixabay.com/photos/iphone-hand-screen-smartphone-apps-410311/</u> CC Zero