

## **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

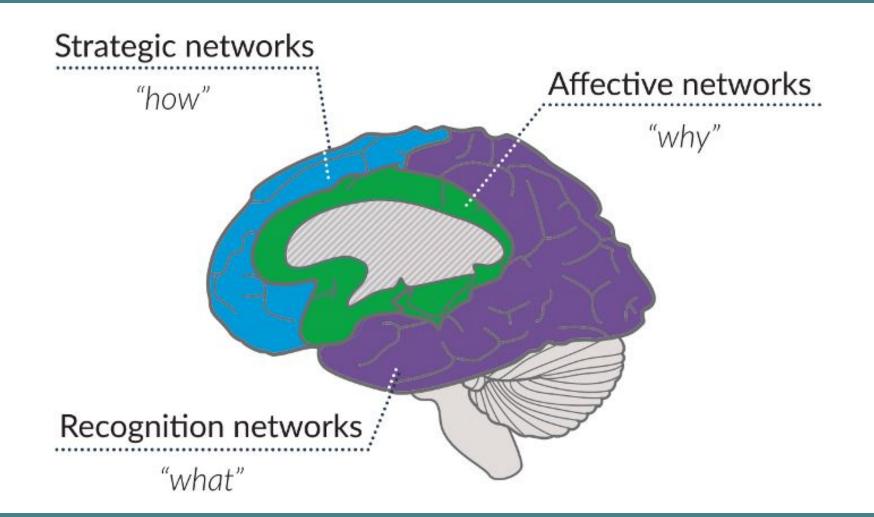
## CLASSROOM - LIBRARY - SCHOOL

## 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

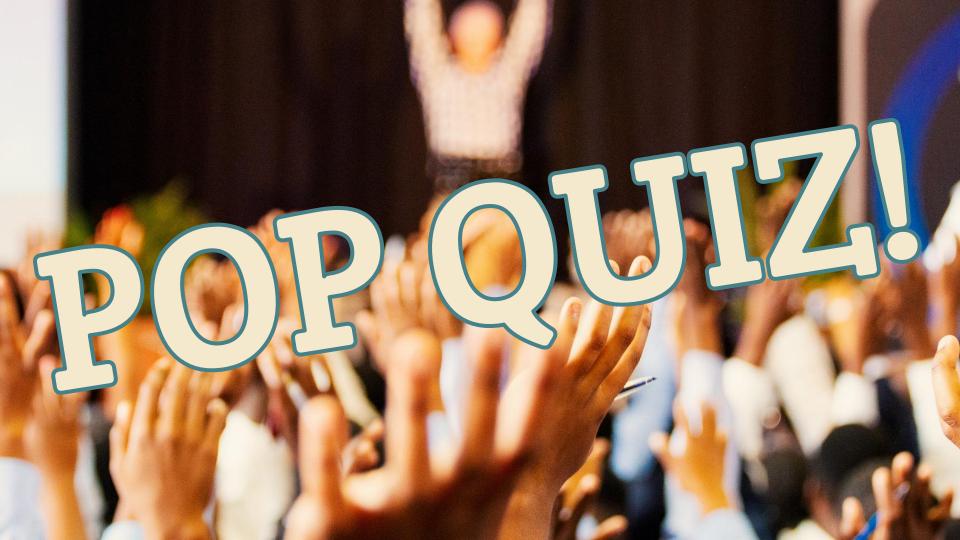
Recruits student interest (Choice, autonomy) Uses multiple tools for construction / composition Encourages self-assessment and reflection

# 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

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#### 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. <a href="https://pixabay.com/photos/little-girl-reading-garden-child-912380/">https://pixabay.com/photos/little-girl-reading-garden-child-912380/</a> 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. <a href="https://pixabay.com/photos/kansai-university-japan-school-84363/">https://pixabay.com/photos/kansai-university-japan-school-84363/</a> 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

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**Slide 17:** Rirri. (2020, July 28). *White and blue book on white table photo* [Photograph]. Unsplash. <a href="https://unsplash.com/photos/f0yNfubusxE">https://unsplash.com/photos/f0yNfubusxE</a> 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. <a href="https://pixabay.com/photos/children-win-success-video-game-593313/">https://pixabay.com/photos/children-win-success-video-game-593313/</a> CC Zero

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

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



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**Slide 25:** Hermann. (2014, Oct 14). *Books-education-school-literature-485479* [Photograph]. Pixabay. <a href="https://pixabay.com/photos/books-education-school-literature-485479/">https://pixabay.com/photos/books-education-school-literature-485479/</a> 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