

**Universal Design  
for Learning Center**  
at OCALI



[www.ocali.org](http://www.ocali.org) / 614.410.0321



## The Three Principles

### Multiple Means of...

#### Representation

Give learners several ways to acquire information.

#### Expression/Action

Supply learners with alternatives to demonstrate what they know.

#### Engagement

Challenge learners interests and motivate them to succeed.

## Origins of UDL



Our Brains R Unique: If you can read this you have a strong mind:

7H15 M3554G3  
53RV35 7O PROV3  
H0W 0UR M1ND5 C4N  
D0 4M4Z1NG 7H1NG5!  
1MPR3551V3 7H1NG5!  
1N 7H3 B3G1NN1NG  
17 WA5 H4RD BU7  
NOW ON 7H15 LIN3  
YOUR M1ND 1S  
R34D1NG 17  
4U70M471C4LLY  
W17H 0U7 3V3N  
7H1NK1NG 4B0U7 17,  
B3 PROUD! ONLY  
C3R741N P30PL3 C4N  
R3AD 7H15.



---

---

---

---

---

---

---

---

---

---

## Technology as a Tool

When teachers “perceive” technologies as part of their teaching and part of students’ learning, there can be greater gains to both surface and deep understanding.

Source: The Learning Edge: What Technology can do to Educate All Children

---

---

---

---

---

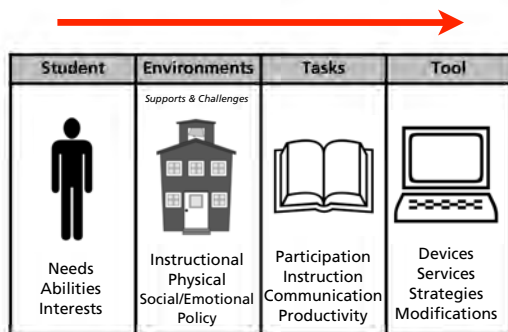
---

---

---

---

---



Source: SETT Framework - Dr. Joy Smiley Zabala, Ed. D., ATP



---

---

---

---

---

---

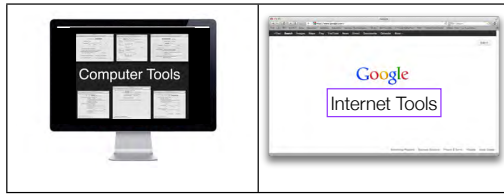
---

---

---

---

## Cool Tools



---

---

---

---

---

---

---

---

---

---



---

---

---

---

---

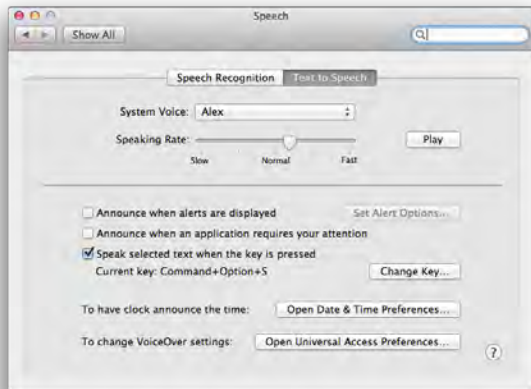
---

---

---

---

---



**Text to Speech** Benefit: Students can benefit from hearing text on the computer screen spoken. Individuals who have difficulty decoding and understanding text may comprehend printed content much better when it is read out loud.

---

---

---

---

---

---

---

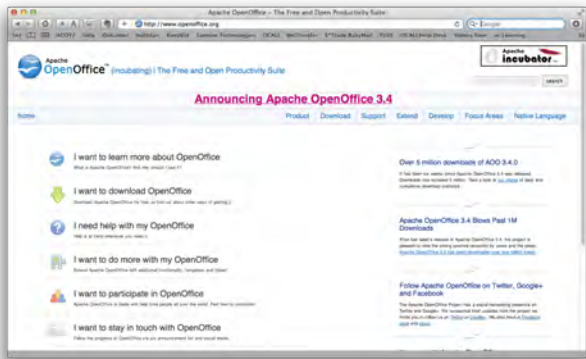
---

---

---



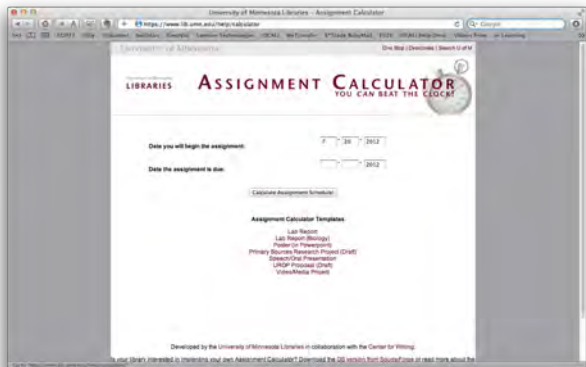




**OpenOffice** Benefit: Open-source office software suite for word processing, spreadsheets, presentations, graphics, and databases.



**OpenDisc** Benefit: High quality collection of open source software for the Microsoft Windows operating system.



**Assignment Calculator** Benefit: Helps students organize assignments from a bank of existing assignments (e.g. research paper, speech, video, etc.) or create their own from scratch.





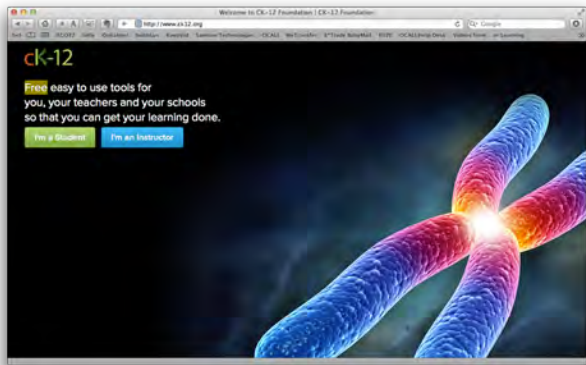




**Khan Academy** Benefit: Students who are visual learners have access to a library of over 3000 videos covering everything from arithmetic to physics, finance, and history - hundreds of skills to practice.



**Bitesize** Benefit: Provides information to students on english, math and science. The site condenses content into bite-sized information with illustrations and activities to explain concepts.



**ck-12** Benefit: Allows students and educators to access high quality educational content that can serve both as core text as well as provide an adaptive environment for learning. Also provides exercises and resources on subject matter.









**BibMe** Benefit: The fully automatic bibliography generator. It's an easy way to build cited page for students.



**MakeBeliefsComix** Benefit: Online educational comic strip generator that helps students foster their literacy and writing skills.

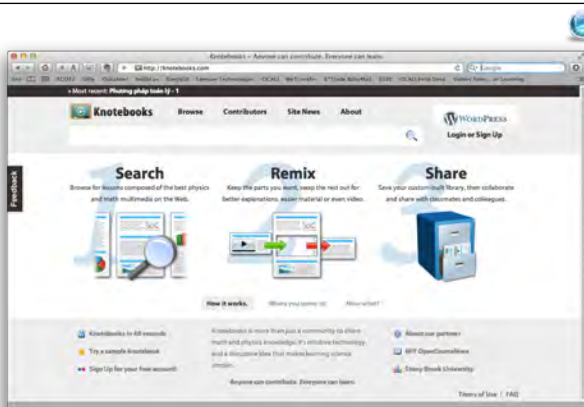




**Animoto** Benefit: A website that helps students create videos from photos, video clips, words and music.



**TodaysMeet** Benefit: Teachers can create blogging channels for discussions for classroom lessons.



**Knotebooks** Benefit: A web-based tool that teachers can access for open educational resources (OER), providing users with the tools to create, collaborate on and share.









“No one who ever bought a drill wanted a drill. They wanted a hole.”

- Perry Marshal



---

---

---

---

---

---

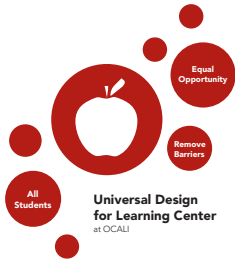
---

---

---

---

Jeff McCormick  
P 614-410-0380  
E [jeff\\_mccormick@ocali.org](mailto:jeff_mccormick@ocali.org)



Cool Tools  
to Support  
UDL in Schools

**OCALI**  
www.ocali.org / 614.410.0381

---

---

---

---

---

---

---

---

---

---

## Cool Tools to Support UDL in Schools Resource Page

Tool	Location
Text to Speech	Choose Apple menu > System Preferences, click Speech, and then click "Text to Speech." Open the Text to Speech pane of Speech preferences. Select the "Speak selected text when the key is pressed" checkbox. By default, Option+Esc is used.
Calculator	Choose Finder > Applications > Calculator
Safari Reader	Choose Finder > Application > Safari
<b>Free Software</b>	
osalt.com	<a href="http://www.osalt.com">http://www.osalt.com</a>
OpenOffice	<a href="http://www.openoffice.org">http://www.openoffice.org</a>
OpenDisc	<a href="http://www.theopendisc.com">http://www.theopendisc.com</a>
<b>Organization</b>	
Assignment Calculator	<a href="https://www.lib.umn.edu/help/calculator">https://www.lib.umn.edu/help/calculator</a>
Springnote	<a href="http://www.springnote.com">http://www.springnote.com</a>
Stixy	<a href="http://www.stixy.com">http://www.stixy.com</a>
bubbl.us	<a href="https://bubbl.us">https://bubbl.us</a>
SpiderScribe	<a href="http://www.spiderscribe.net">http://www.spiderscribe.net</a>
WorksheetWorks	<a href="https://worksheetworks.com">https://worksheetworks.com</a>
Visuwords	<a href="http://www.visuwords.com">http://www.visuwords.com</a>
<b>Academics</b>	
Khan Academy	<a href="http://www.khanacademy.org">http://www.khanacademy.org</a>
Bitesize	<a href="http://www.bbc.co.uk/schools/ks3bitesize">http://www.bbc.co.uk/schools/ks3bitesize</a>
<b>Reading</b>	
ck-12	<a href="http://www.ck12.org">http://www.ck12.org</a>
Blio	<a href="https://www.blio.com">https://www.blio.com</a>
BookRix	<a href="http://www.bookrix.com">http://www.bookrix.com</a>
Tar Heel Reader	<a href="http://tarheelreader.org">http://tarheelreader.org</a>
Storyline Online	<a href="http://www.storylineonline.net">http://www.storylineonline.net</a>

Tool	Location
Books Should Be Free	<a href="http://www.booksshouldbefree.com">http://www.booksshouldbefree.com</a>
<b>Math &amp; Science</b>	
UMS	<a href="http://www.umsolver.com">http://www.umsolver.com</a>
NASA	<a href="http://www.nasa.gov">http://www.nasa.gov</a>
<b>Games</b>	
Cool Math	<a href="http://www.coolmath.com">http://www.coolmath.com</a>
Zondle	<a href="https://www.zondle.com">https://www.zondle.com</a>
<b>Bibliographies &amp; Comics</b>	
BibMe	<a href="http://www.bibme.org">http://www.bibme.org</a>
MakesBeliefsComix	<a href="http://www.makebeliefscomix.com">http://www.makebeliefscomix.com</a>
<b>Communication</b>	
Animoto	<a href="http://animoto.com">http://animoto.com</a>
TodaysMeet	<a href="http://todaysmeet.com">http://todaysmeet.com</a>
Knotebooks	<a href="http://knotebooks.com">http://knotebooks.com</a>
<b>Presentations &amp; Stories</b>	
Prezi	<a href="http://prezi.com">http://prezi.com</a>
Storybirds	<a href="http://storybird.com">http://storybird.com</a>
<b>Website Creation &amp; Web Clouds</b>	
Weebly	<a href="http://www.weebly.com">http://www.weebly.com</a>
Google Sites	<a href="https://sites.google.com">https://sites.google.com</a>
Wordle	<a href="http://www.wordle.net">http://www.wordle.net</a>
<b>Videos</b>	
The Center on Congress	<a href="http://congress.indiana.edu">http://congress.indiana.edu</a>
Xtranormal	<a href="http://www.xtranormal.com">http://www.xtranormal.com</a>
Knowmia	<a href="http://www.knowmia.com">http://www.knowmia.com</a>