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Digital Tools and Instructional Strategies:
Supporting Students with Disabilities in the Online Classroom
Dec 10, 2020, 3:00-4:00PM ET
Presenter: Kavita Rao
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The UDL Guidelines focuses on providing multiple means of representation, action and expression, and engagement to reduce barriers and increase access to the curriculum for students with and without disabilities. This webinar highlights how digital tools along with instructional strategies can support students with disabilities with common challenges in the areas of academics, executive function, and learning behaviors/engagement in the online environment.

Additional resources related to this webinar can be found on the School Virtually website (www.schoolvirtually.org)

Topic	Areas covered during webinar	Related Resources
SECTION 1: Learner Variability and Reducing Barriers	**Learner Variability is the Norm** ● Considering strengths, preferences and abilities as we design instruction ● Common barriers in curriculum **Reducing Barriers with Universal Design for Learning (UDL)** ● Addressing barriers and learner variability ● Digital Tools aligned with UDL	● Video: Variability Matters by Dr. Todd Rose (watch first 7 minutes) ● Resource: The UDL Guidelines ● Video:UDL in Action (Understood.org) ● Videos: National Center for UDL

SECTION 2: Digital Tools for Representation	**1.Make input comprehensible (UDL Guidelines 3 and 6)**
	● Create step-by-step directions on how to access tools
	● Create short video explanations (Screencastify, Screencast-o'matic, Quicktime, Loom)
	   ○ How to Record a Screencastify Video (Sam Kary)
	   ○ Top Ten Screencastify tips (EdTechTeam)
	● Chunk video lesson with questions: EdPuzzle
	   ○ Getting Started with EdPuzzle
	   ○ How to Teach Remotely with EdPuzzle (Sam Kary)
	● Online Digital Bulletin Board (e.g., Padlet, ex., Padlet resource bank)
	
	2.Support reading and comprehension (UDL Guidelines 1, 2, and 3)
	● Read & Write for Chrome (free for teachers)
	   ○ TextHelp Videos (Read and Write for Chrome, Equatio)
	   ○ Read & Write for Chrome - An Introduction & Overview
	   ○ Collecting Highlights (1 minute)
		● School Virtually Webpage: Digital Tools for Representation
		
		● Webpage:Built in Accessibility features for the Mac
		
		● Webpage:Built in accessibility features for the Chromebook
		
		For lists of digital tools to support Reading and Comprehension, see:
		● 7 Chrome Tools for Reading (understood.org)
		● Article: Digital Tools for the Inclusive Classroom: Google Chrome as Assistive and Instructional

	○ Vocabulary Tool (1 minute) ● VoiceDream Reader (app)	Technology
SECTION 3: Digital Tools for Action and Expression	**1.Demonstrate knowledge in various ways (UDL Guidelines 4, 5)** ● Multimodal digital book tools (e.g., Bookcreator, UDL Book Builder) ○ Book Creator Sample Library ● Other multimodal formats (Piktochart inforgraphics, Puppet Pals) ● Scaffolded collaborative slides (e.g. in Google Slides) **2.Provide opportunities to practice (UDL Guidelines 5)** ● Create short audio clips (on mobile device or Chrome apps) ● Use speech to text to generate text and get feedback ● Narrate your ideas to a photo prompt (Voicethread, Educreations) **3.Support Task and Time Management (UDL Guideline 6)** ● Providing clear directions (hyperdocs, technology step-by-step process) ● Weekly Check-ins (e.g., using Google Form) ● Shared progress sheet (e.g., using Google sheets)	❖ School Virtually Webpage: Digital Tools for Action and Expression ❖ Chapter: *Using Multimedia Technologies to Support Culturally and Linguistically Diverse Learners and Young Children with Disabilities*

SECTION 4: Digital Tools for Engagement	**1.Develop self-directed learners (UDL Guidelines 7 & 9)**
	● Checklists (Google Keep)
	● "How To" video or slides
	● Digital Portfolio (click here for example created in Google Sites)
	
	2.Foster Interaction and Collaboration (UDL Guideline 8)
	● Multimodal Online discussions (e.g., Flipgrid; Padlet)
	   ○ Educator's guide to Flipgrid
	   ○ How to Teach Remote with Flipgrid (Sam Kary*)*
	   ○ How to Teach Remotely with Padlet (Sam Kary)
	● Opportunities to practice (e.g., Quizlet) Tips for using Quizlet
	● Breakout rooms with mini-activities
	● Collaborative docs for mastery-oriented feedback (Google Docs, Kaizena)
		● School Virtually Webpage: Digital Tools for Engagement
		
		❖ Article: *Supporting Academic and Affective Learning Processes for English Language Learners with UDL*

SECTION 5: Integrating Digital Tools in your Lessons	**Guiding questions for using digital tools** **Designing online learning experiences with UDL**	School Virtually Webpages: ❖ Flipping Instruction Online ❖ Online Learning Experience Design Worksheet ❖ Video Series on Designing for Online Learning

Common Challenges and Barriers to Address when Designing Learning Experiences

Academic Challenges	Executive Function	Learning behaviors
When reading text: ● Decoding ● Vocabulary ● Comprehension **When writing:** ● Generating ideas ● Organizing ideas ● Drafting writing ● Mechanics of writing	**Understanding Expectations** ● Remembering instructions ● Following step-by-step instruction ● Knowing how and when to ask for help **Planning and Organization** ● Breaking tasks down and setting realistic goals ● Time management ● Self-monitoring progress ● Managing resources	**Motivation** ● Engaging in tasks ● Persisting with tasks ● Focus/Attention **Self regulation** ● Confidence (learned helplessness) ● Strategies to cope

LINKS TO VIDEOS AND TUTORIALS RELATED TO THIS PRESENTATION

<u>Excellent "How To" Tutorials for various Digital Tools:</u>
New Ed Tech Classroom (YouTube Channel)
Sam Kary, a teacher in San Francisco, creates simple and clear videos on how to use various digital tools in the classroom. Check out his video series for many excellent tutorials on using digital tools and apps. Sam focuses on how to use the tools well for instructional purposes.

<u>Read and Write for Chrome:</u>
TextHelp Videos (Read and Write for Chrome, Equatio)
Read & Write for Chrome - An Introduction
Collecting Highlights (1 minute)
Vocabulary Tool (1 minute)

<u>Screencastify:</u>
How to Record a Screencastify Video (Sam Kary)
Top Ten Screencastify tips (EdTechTeam) - this document has various ideas for using Screencastify for teachers and students)

<u>Piktochart</u>
How to use Piktochart in every classroom

<u>Digital Portfolios</u>
Digital Portfolios for Students (information on why digital portfolios can be useful)
Using E-portfolios in the Classroom (considerations, including privacy issues and tools to use)

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