

Digital Pedagogy Design Learning Experiences







Sustainable Development



What we did yesterday..

- Share your views, photos, work, ideas
- Create your Digital Identity
- Be mindful of the digital etiquettes
- Evaluate credibility of information online



Day 4: Design Learning Experiences

- Agenda & Quick recap: 5 min
- How to choose tools? Honeycomb: 15 min
- Reflection: Barriers : 10 mins
- Design Cycle: 15 min
- Q&A

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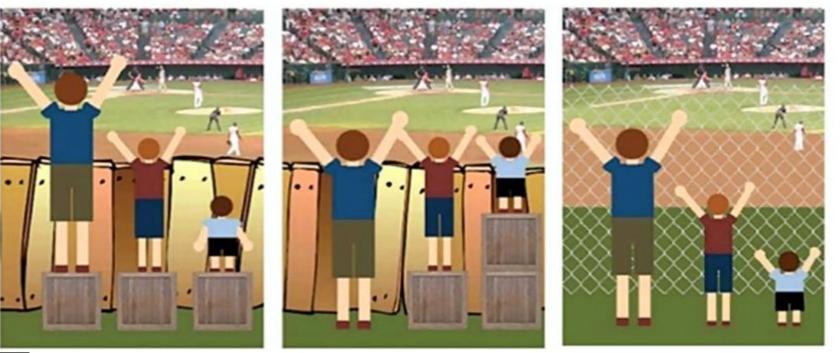




How can we design learning that is impactful and engaging?

Does technology always play a role?

Which design of stadium suits most people?







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Universal Design for Learning preempts barriers in learning





Simple assignments like group presentations require multiple skills like research, content organization, writing / drawing, planning, team work

When learners do not have some skills, they face barriers which can disengage them

Barriers may pertain to reading, writing, planning, lack of confidence, coping with emotions, attention etc

Some of these barriers can be predicted and reduced by careful planning and design

SOME HELPFUL QUESTIONS TO IDENTIFY BARRIERS

Will learners have trouble with comprehension?

Will they experience challenges in expressing their knowledge?

Will learners feel disengaged? How will the variability between different types of learners and their specific needs (e.g. newcomers) affect their learning and engagement? Do they need additional background information to understand the concept?

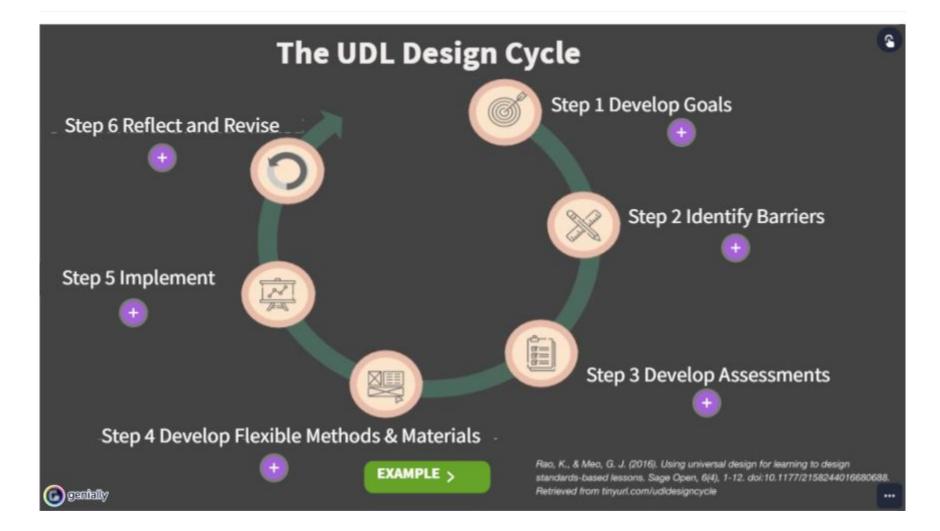


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Reading

Common Student Challenges Related to Reading				
Accessing Text Decoding Text Reading Fluency Comprehension Executive Function Skills				
Elements	Features of Digital Environments that Support Reading	Digital Tools with these Features		
Access to Text (Display of Information)	 Addresses student visual preferences; makes reading more comfortable by altering text and page Provides options for changes to font size and style, text color and background color, spacing, and margins Offers a more simplified and focused view by focusing on a particular line, paragraph, or page Adjusting the number of words on a page; less text can be less intimidating 	Integrated In OS • Ease of Access (Windows) • Accessibility (Mac) Chrome Extensions • Mercury Reader • Just Read • Read Mode • More • Print Friendly		
Decoding and Reading Fluency & Vocabulary	 Provides synonyms, definitions, and hyperlinks to know the meanings of unknown words Offers a reduction in difficulty level of reading text descriptions and images Translation Allows easy translation of the text into various languages Offers text-to-speech option which can help with jodecoding and comprehension. When using less energy, decoding can reduce the cognitive load. 	Chrome Extensions • Read&Write for Chrome • <u>Snap and Read</u> • <u>Fluency Tutor</u> • <u>Natural Reader</u> Integrated with OS • <u>How to turn on Mac TTS</u> • <u>How to turn on Windows Narrator</u>		
Comprehension	 Supports note-taking and marking up the text via highlighting, bookmarking, margin notes, outlining, drawing along with a means of gathering and grouping notes for post-reading review Teachers can leave annotated comments, provide sketches, comprehension questions, etc.; students can also annotate key areas Students can highlight text in different colours 	Chrome Extensions Scribl Kami Web Tools Newsela Newsela Wonderopolis		



Writing

Common Student Challenges Related to Writing Generating ideas Drafting a piece of writing Organising ideas Mechanics of writing Word Prediction As the student 4.2 Optimise access ٠ Built into iPad onscreen keyboard writes, he or she to tools and receives a Available on Read and Write assistive possible list of Keyboard (for tablets) and Chrome technologies words that they extension 5.2 Use multiple could be typing, tools for and likely words construction and that would follow composition Speech to Text Converts the iPad Dictation 5.2 Use multiple spoken word into (STT)/ Speech text tools for Voice Recognition Recognition(SR) Helpful for Speak It construction and students who composition struggle with the mechanics of Spelling & Checks spelling. Grammarly (Chrome 4.2 Optimise access to capitalisation, grammar, Grammar extension) tools and assistive passive voice, sentence (Watch a short video of Checkers technologies structure, subject-verb a teacher using 5.2 Use multiple tools fo agreement Grammarly) construction and **Ginger Grammar** composition Checker Read and Write

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Organizing & Engagement

Organizing	EvernoteGoogle Keep	 Checklists of goals and actionable to-dos Digital notebook-style organiser for ideas Digital portfolio for student work 	
	BefocusedGantt Charts	 A scoreboard showing the amount of time invested in a project or in developing a skill Track progress for multi-step progress 	
Engagement	Digital Quiz/Game Tools Kahoot Quizalize Nearpod Digital flashcards Quizlet Memvrise 	 Students take turns answering live quiz questions for grammar patterns, vocabulary or content, including math practice Create flashcard sets for vocabulary practice or to support recall of content 	
	Common Challenges Faced by Students Related to Engagement		
Persist	ing in tasks ting in the face of challenges ning focus	Self-RegulationDeveloping confidenceCoping with emotions	



Consider the Honeycomb to identify which tool to use



CONSIDERATIONS TO EVALUATE DIGITAL TOOLS

User Experience Honeycomb by Peter Morville

USABLE

- Can my students and I use this tool easily?
- Does the tool work on my devices?
- USEFUL • Does this tool assist in meeting learning goals or

outcomes?

DESIRABLE

 Is the visual aesthetic of the tool appealing, attractive and engaging?

FINDABLE

- Are there tutorials, help pages, and other support options?
- Does the navigational structure take users' behaviour and habits into consideration?

ACCESSIBLE

- Is the tool affordable? If the tool is free, does it have any limitations?
- Does the tool give students options and choices for their different preferences, needs, and abilities?
- Does the tool require internet access? Can the tool be used with no or low bandwidth?

CREDIBLE

- Is there a clear privacy policy that lets users maintain copyright of their creations?
- Does the tool safeguard data from unauthorised access, disclosure and use?
- Is the tool developed by a credible company?

VALUABLE

 Does the tool support save (if possible auto-save) and export content as desired in a variety of formats and platforms? Can it be embedded?





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Consolidation

- Amidst information overflow: Pause!
- Use Honeycomb: 7 elements
- Use honeycomb for choosing right tool
- Design experience using tool
- Begin with Barriers first!



- Use data from Variability & Barriers for Learning design!
- Make sure to enjoy the process!