

Universal Design for Learning: Introduction Strategies for the Classroom

Laurenhill Jr. August 27th, 2015 Facilitated by: Andrea Prupas, ALDI Initiative



Resources for this presentation

- aldi.learnquebec.ca
- ALDI professional development resources
- powerpoint

Today's discussion and activities

- 1. What is Universal Design for Learning?
- Student diversity
- Origins of UDL
- 2. How to design accessible learning
- (plus a bit of neuroscience thrown in...)
- 3. Where do I start?
- Active Learning Strategies to Support UDL

What is Universal Design for Learning?

An educational approach that aims to increase access to the curriculum by reducing barriers to learning.

To understand UDL, we have to discuss....

Student diversity

We know that...

We have a diverse student population that need flexible approaches to teaching and learning in order to succeed.



OUR TYPICAL CLASSROOMS

Students with emotional difficulties

Students with Autism Spectrum Disorders

Students who have difficult home lives/ conditions

Students who are disengaged/demotivated

Students with learning disabilities

Students who require acceleration

Students who require support for mental health issues

What does diversity look like?

Differences in learning style

Differences in background knowledge and experience

Differences in learning preference

Differences in interests and motivation

Inclusive Teaching Practices

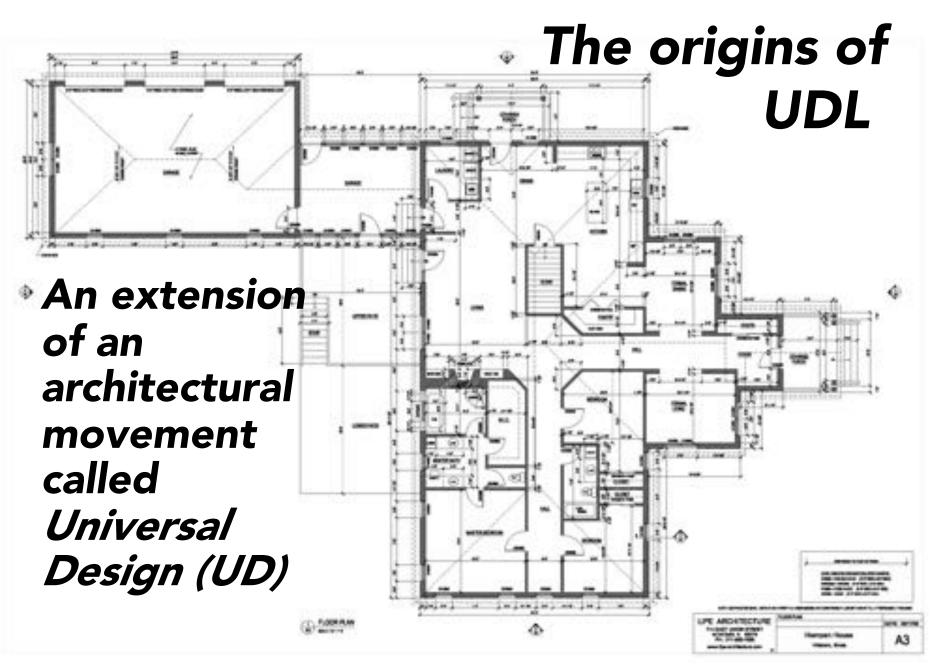
Introducing...

Universal Design for Learning (UDL)



What is UDL?

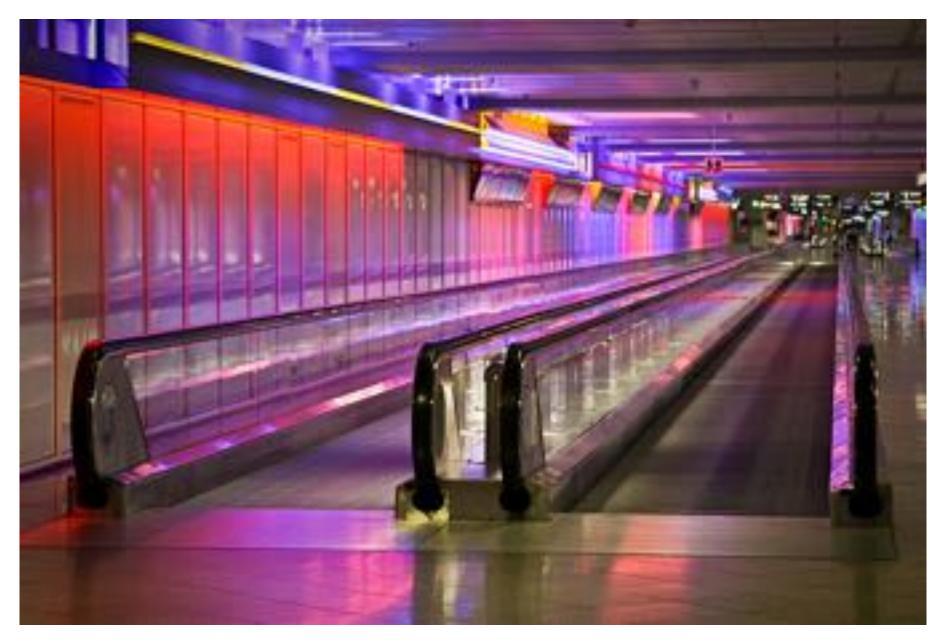
 An educational approach that aims to increase access to learning by reducing physical, cognitive, organizational and other barriers.



"Consider the needs of the broadest possible range of users from the beginning."



-Ron Mace, pioneer and visionary of Universal Design





Universal Design in the classroom means....

• *Flexible* learning experiences that can meet the needs of many learners.

• *No retrofitting*. Designing accessible experiences from the beginning...

Why does UDL make sense in our secondary schools? **Because its proactive, not reactive!**



Current models of adaptation means that we need to accommodate and manage a significant range of individualized adaptations In our classrooms (reactive model).

A shift to a more proactive model will benefit all.

How to design accessible learning experiences

Four considerations for accessible learning

Think about:

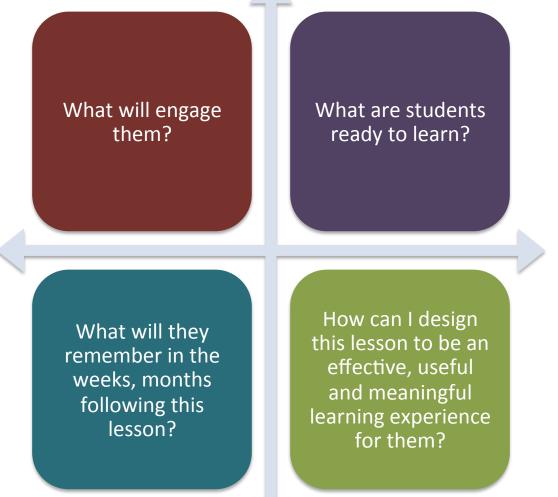
- 1. Instructional design
- 2. Reducing barriers
- 3. Flexible teaching and learning experiences
- 4. Active learning

instructional design

The "deep work" of teaching

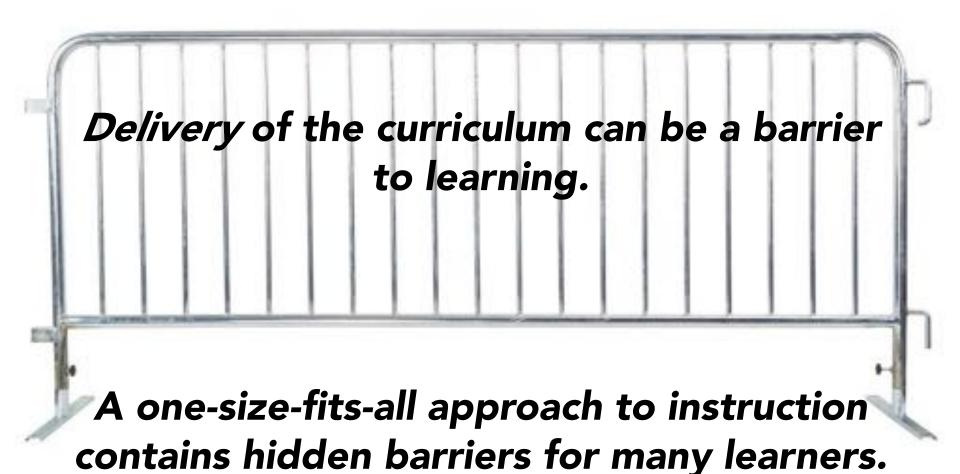
"What will students be learning today and how will they learn it?"

Deep learning questions



Where Great Teaching Begins (Reeves, A.) 2011

Reducing barriers



What are barriers that your students have encountered?



Flexible teaching and learning practices

1. How we present information to our students (INPUT or representation)

2. How we allow our students to **express themselves** (OUTPUT or expression)

3. How we **engage** our students-**highly relevant for secondary students**

Representation of content

"Learners differ in the ways that they perceive and comprehend information that is presented to them."

CAST, 2012

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How do you represent information/concepts in different ways?



Learning takes different kinds of exposure.

Each way of presenting a concept shapes student understanding.

INESTHETIC J

I learn best when... 1230

Active learning

Active learning means that *the mind* is actively engaged. Its defining characteristic is that students are dynamic participants in their learning and that they are reflecting on and monitoring both the processes and the results of their learning.

(Barkley, 2010)



15-08-27

To sum up...

• Learning is not a "spectator sport."

(Chickering & Gamson, 1987)

 Our most common method of delivery (auditory information) isn't enough.

Why auditory-based learning doesn't work for all....

• Our brain is not a recorder.



This is our brain on learning...

Have I heard this information before?

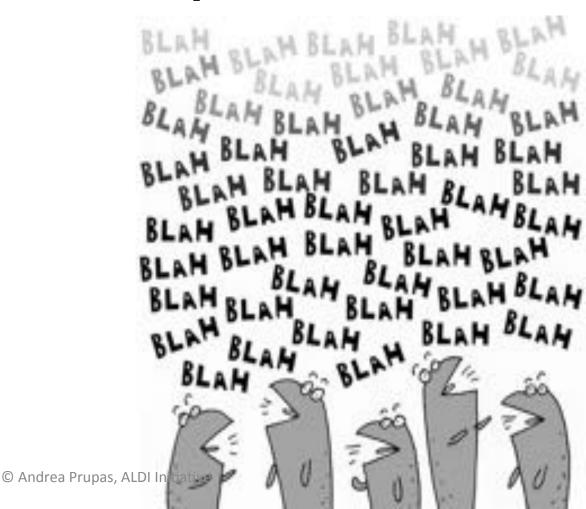
Where does this information fit? What can I do with it?

Constant processing and questioning of information!

Can I assume this is the same idea I had yesterday or last month or last year?

This compares to...

Our brains do a better job of learning if we are allowed to discuss with others and if we are invited to ask questions.



Research says...

Learning should be largely a social, collaborative experience. Articulating and sharing ideas and responding to others' reactions improves thinking and deepens understanding.



"Learning can't be swallowed whole. To retain what has been taught, students must chew on it." Silberman, M. (1996) How do you get students to "figure it out" without telling them the answer?





Muddiest Point

Visuals and concept mapping

Write Around the Room

Active learning strategies to support UDL

Think-Pair-Share

Where do

Questioning

Gets students into active, searching mode

Does anyone have any questions?



Questions that encourage inquiry & allow students to demonstrate understanding

- Explain the way to...
- How is this different then...
- Why is it necessary to do this...?
- Could you give me an example of...?
- How could I use this idea in real-life?



Think-pair-share

What are the advantages and disadvantages of using the internet for research?



Activating and building background knowledge



Background knowledge is a repository of memories, experiences, and facts.

Why is activating background information important?

 When information is provided in isolation and not connected to existing knowledge, it is forgotten and deemed unimportant.

 When students are actively building their background knowledge, learning becomes more accessible and they are more likely to experience success.

(Marzano, 2004).

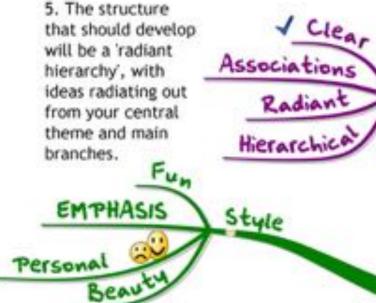
Write Around the Room



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Online learning

- What is online learning?
- Would you like to take a course online and why/ why not?
- What are the benefits of online learning?
- What are some of the challenges of online learning?



Using visuals

1. Start at the centre of a blank, landscape page, ideally with a colourful image to represent your subject.

Poper

Use

2. Use words and pictures throughout your map. Wherever possible use single KEY words, printed along a line. Each word or picture sits on its own line.

Print

Single

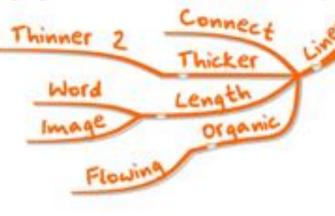
Centre

Landscape

start

Colour

 Experiment with different ways of linking and emphasising different aspects. Use highlighters, codes and arrows as necessary.

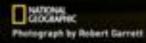


3. The lines make the associations between ideas as clear as possible. Make them flowing and organic, each line the same length as the word or image. Always ensure that lines connect to the end of the line at the previous level. Typically lines will be thicker at the centre and thinner further out.

How to

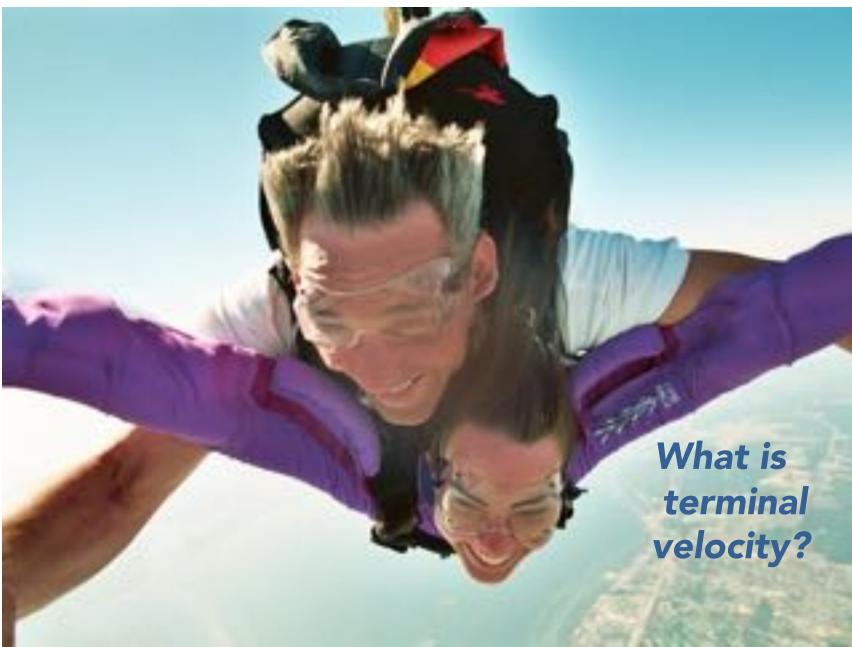
Mind Map

Pictures and visuals attract attention like magnets.



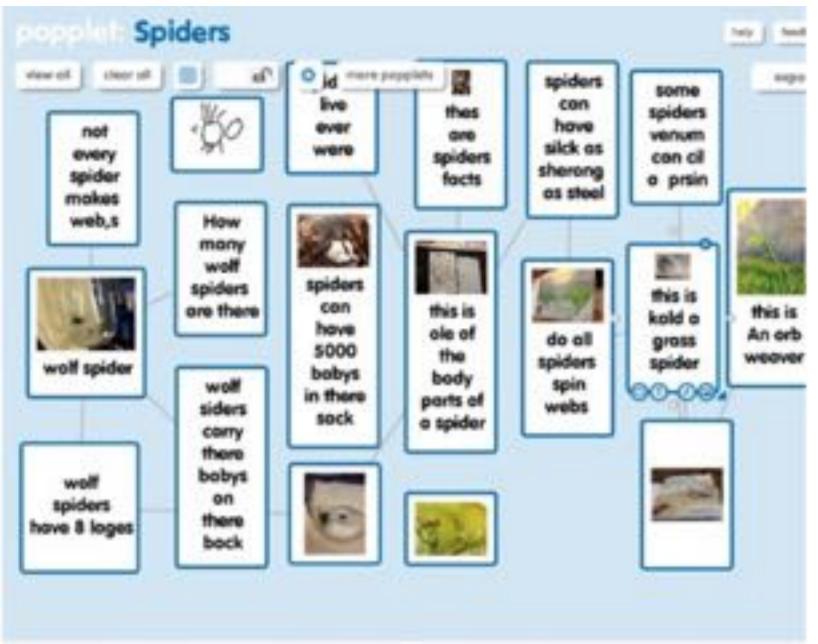
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Is hockey "Canada's game"?





Ask students to identify their "muddiest point"



"Reflecting back to move forward"

Students who recognize where their understanding is "muddy" are also better positioned to direct their learning to remedy this.

What was your muddiest point so far?





Resources

- Where Great Teaching Begins: Planning for Student Thinking and Learning. Reeves, A. (2011). ASCD.
- Active Learning: 101 Strategies to Teach Any Subject. Silberman, M. (1996). Pearson.
- 41 Active Learning Strategies for the Inclusive Classroom (grades 6-12). Casale-Giannola, D. & Schwartz-Green, L. (2012). Corwin Press.

Thank you!



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