The Consortium
Alberta Professional Learning Consortium

Introduction to the APLC Website: What's Available to Help Me Plan?

APLC Summer Symposium
August 18, 2025

Land Acknowledgement

In the spirit of reconciliation, we want to acknowledge that this gathering is taking place on traditional lands across the province of Alberta, home to many diverse First Nations, Métis and Inuit peoples. We acknowledge that this land is a traditional meeting ground giving voice to its original peoples and the story of creation of this country in a way that history has forgotten.

Honourable Harvest - Robin Kimmerer

Indigenous Culture Based Learning in Alberta Curriculum

Agenda

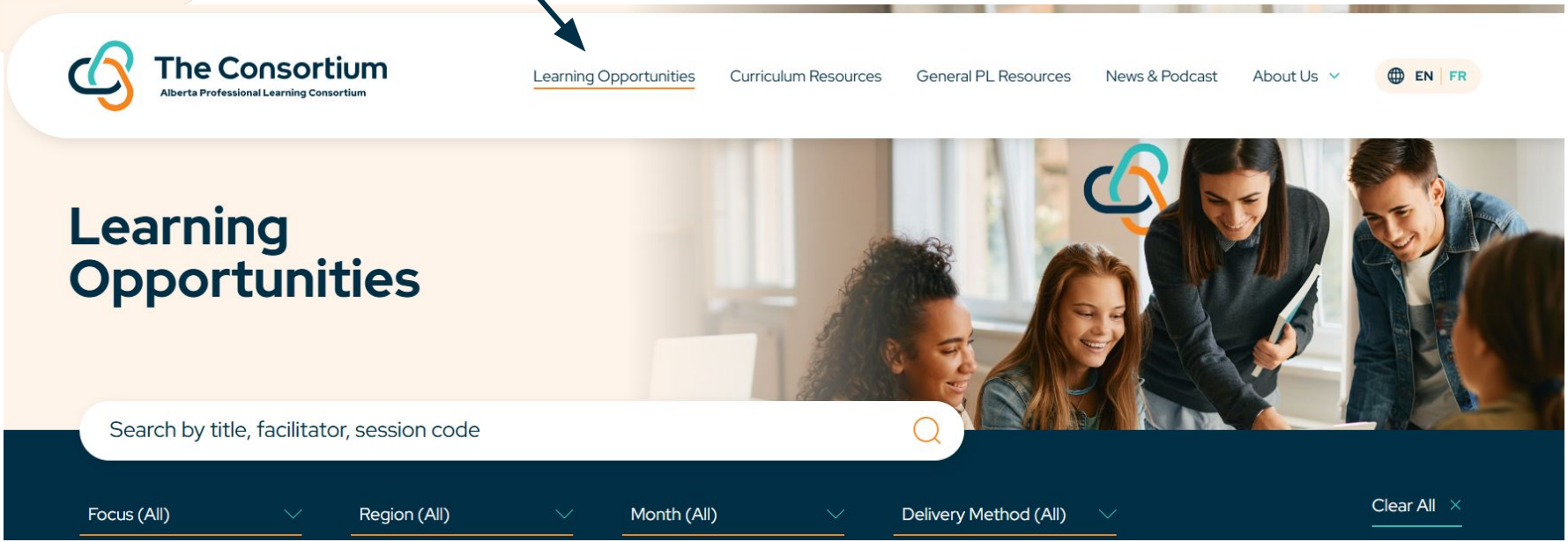
- General introduction to the website as I look for Science related materials
- Finding specific information – narrow the search
- What's posted I should know about?

Gizmos

Getting Started

Supporting every educator
in every classroom

Learning Opportunities Curriculum Resources General PL Resources News & Podcast About Us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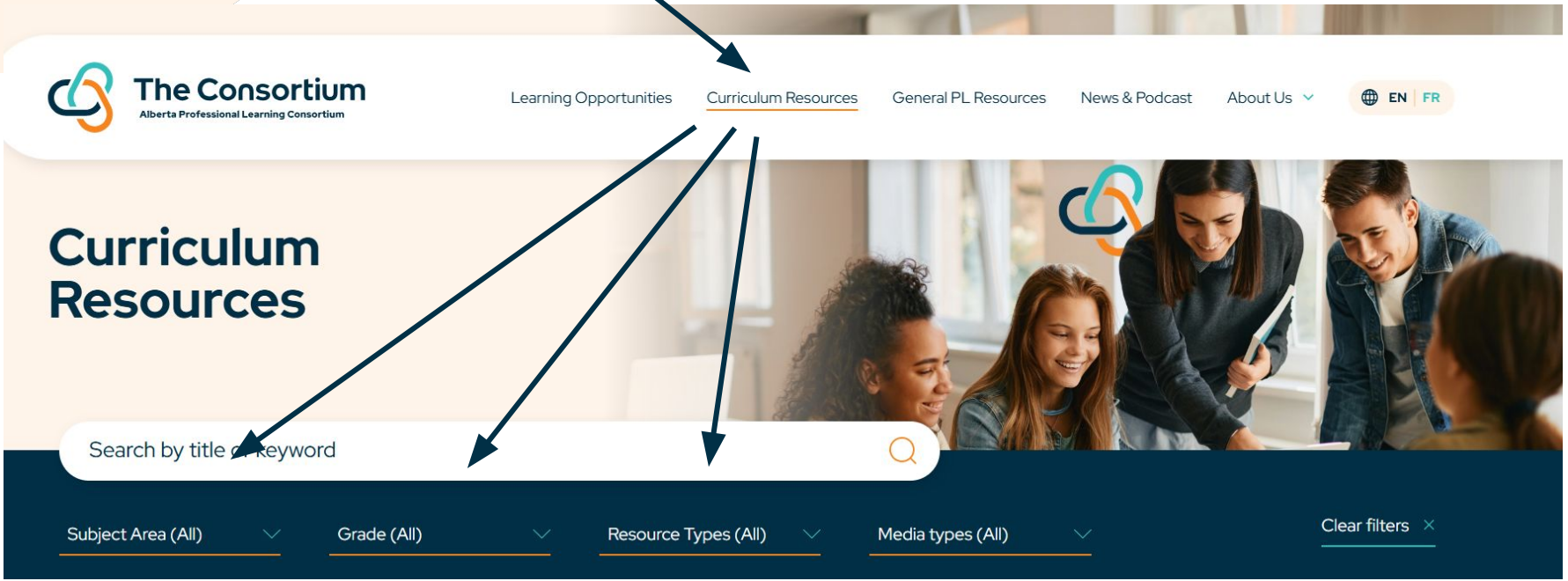
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aplc.ca

Helping you find places we visited!

Science Key Documents

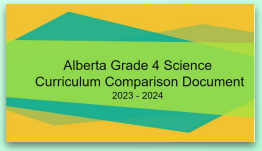
Supporting every educator
in every classroom

All Key Documents

Download the Numbered Outcomes Document;
https://aplc.ca/wp-content/uploads/2023/04/2023-2024-science-numbered-outcomes-provincial.pdf

Download the printable curriculum:
https://curriculum.learnalberta.ca/printable-curriculum/en/home

Curriculum Comparison Documents



Helpful Sites & Resources

Supporting every educator in every classroom

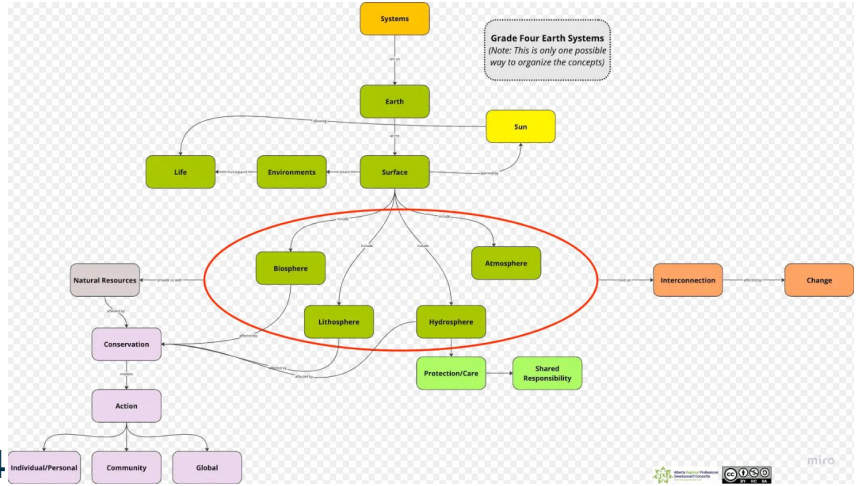
Introductory Videos were made for each grade and each Organizing Idea. Links for resources are also embedded.

New LearnAlberta https://curriculum.learnalberta.ca/home/en		
Each link takes you to your grades video, slide deck and resources. Always look below the "Video" link for the slide deck and resource links.		
Grade 4	**Grade 5**	**Grade 6**
Living Systems	Living Systems	Living Systems
Matter	Matter	Matter
Earth Systems	Earth Systems	Earth Systems
Energy	Energy	Energy
Space	Space	Space
CPAR Documents are best located by Grade in the drop-down menu on the APLC website.		*Resources Type*

Concept Maps

This resource provides concept maps for grades K-6 for each of the following organizing ideas:

- Matter
- Energy
- Earth Systems
- Living Systems
- Space



New links to the map collection document

will be added over time. Last updated: May 1, 2024

[Concept Map Links]

Concept Project

Throughout the new K-6 Alberta curricula are concepts that are central to student learning. Many of the concepts are subject or discipline related such as "punctuation" or "lake."

Other concepts areas are broader and cross subjects or disciplines. *Change* is an example of one of those concepts. Students examine "change on Earth" in Science, "change in pattern" in Math, "changes in the body" in Physical Education and Wellness, and "character change" in English Language Arts and Literature.

This document is meant to be a reference to all of the main concepts, specific and broad, **in the K-6 Science Curricula.**

Concept Project

Concept Progressions

This document assists in the understanding of how the concepts in each organizing idea in the new Science curriculum progresses through the grades. Progressions

Skills & Procedures

Skills & Process Verbs	Grade			
	K	1	2	3
Ask Questions				
Classify (Sort)				
Compare & Contrast				
Conclude				
Create				
Demonstrate Safety				
Describe				
Design				
Discuss				
Examine				
Explain				
Explore				
Investigate				
Observe				
Predict				
Record Data				
Relate				
Represent				

[Link]

Grade 4-6 Skills and Procedure Verbs			
Skill/Procedure	Frequency	Skill/Procedure	Frequency
Discuss	30	Observe	3
Relate	22	Safety	3
Compare	20	Analyze	2
Investigation/Experiment	17	Collect Data	2
Examine	13	Record Observations	2
Explain	12	Measure	2
Identify	12	Test	2
Describe	11	Conclude	1
Represent	9	Decide	1
Create	6	Magnetize	1
Demonstrate	5	Test	1
Interpret	5	Construct Weather map	1
Design	5	Defend	1
Collaborate	4	Translate	1
Evaluate	4	Divergent Thinking	1
Explore	4	Hypothesize	1
Apply	3	Order	1
Classify	3	Predict	1
Plan	3	Research	1
Observe	3	Use tools	1

Chinook's Edge School Division (CESD) - [Key Terms across the grades]

Scientific Method

[Investigation Steps Grades 2 - 6 (Link)]

Investigations 1-6 Progression

The information presented here is not intended to be a detailed summary of the Scientific Methods Organizing Idea. The intent is to highlight how the **steps of an investigation** grow in **complexity** and **depth** from Grade 1 to Grade 6

Grade 1	Grade 3	Grade 4	Grade 5	GRADE 6
Steps followed during an investigation include: 1) Asking **Questions** 2) Making **Predictions** 3) Gathering **Data** 4) Forming **Conclusions**	**Data** • Accuracy • Objectivity • Sources (Accurate & Trustworthy) **Analyzing** • Techniques	**Data** • Descriptive (qualitative) • Numbers (quantitative) • Relevance **Evidence** • Data that supports the conclusion becomes evidence • Reliability • Validity **Système international d'unités** • international system of units	**Phenomena** • facts or events that can be observed **Bias** **Variables** • Manipulated (independent) • Responding (dependent) • Controlled **Experiment** • Controlled Experiment **Evidence Communication** • Representation • Clarity & Accuracy **Scientific Ethics**	**Explanations** • Hypothesis • Testable (falsifiable) • Use of reliable objective data and evidence • Describe natural phenomena • Use of variety of texts and representations
Grade 2				
Procedures scientists use to guide investigations include: 1) Asking **Questions** 2) Making **Predictions** 3) **Planning** the Investigation 4) **Observing** and **Recording Data** 5) **Analyzing** Data 6) Reaching **Conclusions** 7) **Discussing** Observations and Conclusions				

Computer Science & CPAR (Curriculum Planning and Assessment Resource)

Supporting every educator in every classroom

Science Grade __Energy – Connections to Computer Science

Computer Science concepts can be connected to and learned throughout your other Science topics and subject areas. Giving students opportunities to make connections to coding and computational thinking throughout the school day and year will foster strong computer science skills. This resource demonstrates ways you can make connections between your Energy unit and Computer Science.

Exploring Grade __ Computer Science

This video covers an introductory look at the Grade 3 Computer Sciences organizing idea including concrete examples and practical classroom applications.

CPAR – Science Grade __ – Computer Science

This document provides teachers with sample instructional activities, curriculum planning, assessments, and resources (CPAR) for teaching the Computer Science organizing idea in the new Science curriculum. You will find helpful links to activities and suggestions for lessons, materials and robotics that will make teaching computer science fun and easy.

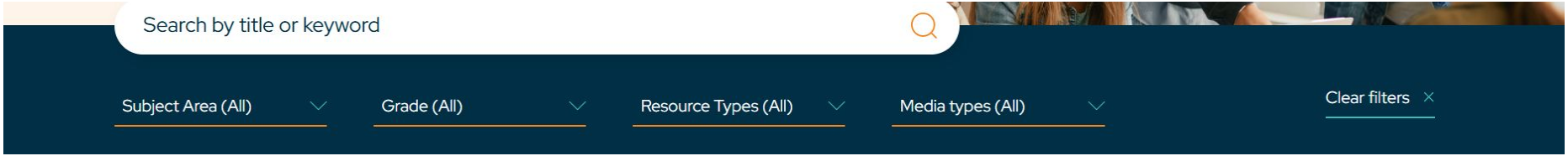
Teachers can use this resource in whole or in part to ensure that their computer science targets are being met. Curriculum Planning & Assessment Resources (CPAR)

Project Based Approach

[Video and Slide Deck]

Quick Summary

Use your menu bar to limit or broaden your search for resources.



Entering the subject you wish to work in is found in this drop-down menu.

Selecting a specific type of resource is found in this drop down menu. If you are not sure what you want OR want to see what has been created for your grade, select ALL.

Multiage Science Resource

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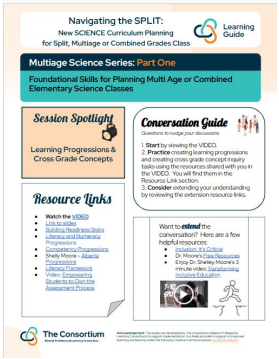
[Multiage Science Planning Resource Guide -](#) **Navigating the SPLIT**



Located on the aplc website at **Multiage and Combined Grade Science Playlist**

This PL Playlist hits 4 key ideas that can support teachers working within the dynamic needs of multi-age and combined-grade classes. Designed to allow you to select the elements you are interested in, short video explanations are accompanied by a range of easily accessed resources. Although many of the examples are set within a science context, the ideas and strategies are well-suited to all subjects and grade levels.

Some great websites that may assist in planning. This is not an exhaustive list!

Mystery Science - can access for 1 year free

Science Buddies - lots of information and planners within the site including a wizard to help narrow topics down for Science Projects.

Explore - books, videos and live cams.

Science Learning Hub - a New Zealand site but excellent information.

STEM Learning - Great site for all grades.

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APLC Post Session Survey

Thank you for attending this session. To help us enhance the delivery of future sessions, we ask that you complete this short survey. **Your feedback is important and appreciated!**

Note: Your survey will be submitted anonymously.

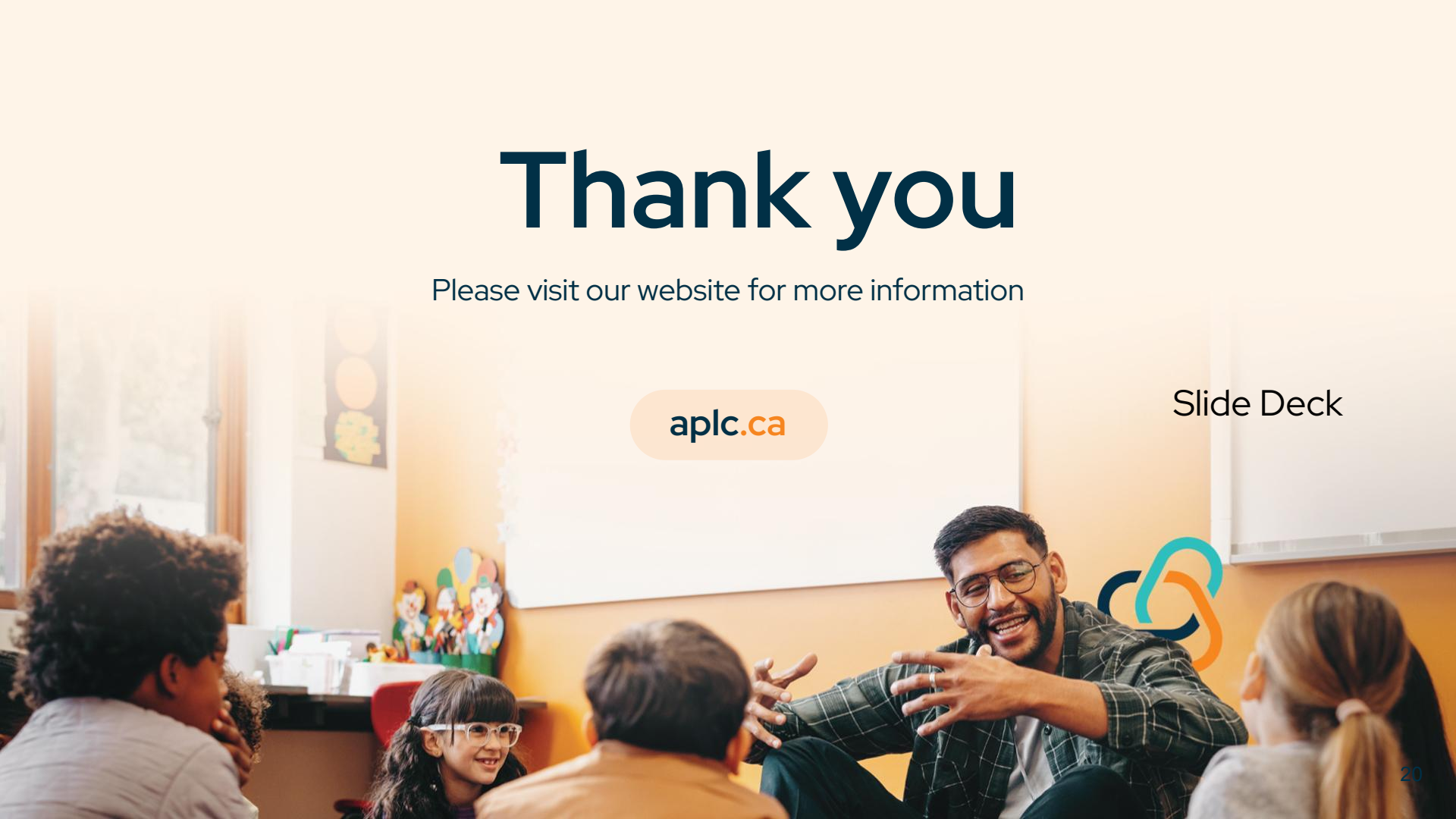
Survey: https://aplc.ca/survey/?id=15077

Thank you

Please visit our website for more information

aplc.ca

Slide Deck

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