



**The Consortium**  
Alberta Professional Learning Consortium

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

APLC Summer  
Symposium  
August 18, 2025

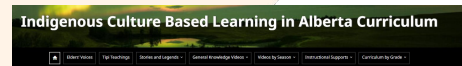


# Land Acknowledgement

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



This website has been developed to provide support for infusing Cree ways of knowing and being into curriculum. Final planning supports, videos, learning guides, and grade-specific documents for Alberta kindergarten to grade 12 English Language Arts and Literature, Math, Social Studies, and Science curriculum.

## Foundations of Cree Ways of Knowing and Being

The *Foundations of Cree Ways of Knowing and Being* is a living model to help teachers plan and feel more comfortable with infusing Indigenous knowledge into curriculum through content-based learning.

The *Foundations* model strives to engage Cree cultural practices influenced by the *Akwéne* concept within traditional teaching. These are both supported by what Cree representatives teach, such as *Wapowéwé* (we) and *Wapowéwé* (I) (we). Within the *Akwéne* model, the *Foundations* also represent the primary knowledge base within such disciplines/subjects according to the teachings that lie within the Cree Ways of Knowing and Being.

*NorthWind* represents conventional teaching in the website in supporting learning connections and being.

[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**

**Back-To-School Webinars**

- Are you looking for interactive resources to engage and empower your students? Visit our website!
- Attend a Gizmos webinar to learn about ready-to-use curriculum-aligned activities, K-6 teachers' support a complimentary Gizmos account, and more!

**Join Our August Math and Science Gizmos Sessions!**

Click the link to learn more about each webinar and to register for the free session.

Using Gizmos Simulations to Support Elementary Math through Math and Inquiry Practices  
Audience: Grades 3-5 Teachers  
Date: August 24th  
Time: 9:00-10:30 am

Using Gizmos Simulations to Support Elementary Math through Math and Inquiry Practices  
Audience: Grades 3-5 Teachers  
Date: August 24th  
Time: 10:30am-12:00 pm

Gizmos Think Like a Scientist: Using Claims, Evidence and Reasoning  
Audience: Grades 6-8 Teachers  
Date: August 29th  
Time: 7:00-8:30 am

Building Scientific Understanding Using Gizmos Online Simulations  
Audience: Grades 8-6 Teachers  
Date: August 29th  
Time: 3:00-4:00 pm

For more information, contact: **Karen Burdette**  
kburdette@gizmos.com

Reach us on Twitter: **Go Gizmos!**  
#Gizmos #Gizmos #Gizmos #Gizmos

**Fall Gizmos Webinar Series**

Date	Time
22 July	9:00-10:00 am
28 July	4:00-5:00 pm
28 September	4:00-5:00 pm

**Gizmos** ExplorLearning

**Énergisez vos cours de Maths et Sciences avec les Gizmos!**

Les Gizmos d'ExplorLearning sont des simulations virtuelles de mathématiques et de sciences qui permettent de vivre des expériences d'apprentissage interactives riches en classe. Les Gizmos introduisent des concepts et de l'interaction dans chaque expérience d'apprentissage. Les élèves apprennent le quel et le pourquoi d'un sujet en posant des questions, en obtenant des résultats et en tirant des conclusions.

• Sessions de formation offertes gratuitement par APSC

**Les simulations Gizmos disponibles en ligne pour appuyer le curriculum de Sciences et Maths**

Le soutien virtuel préparé à l'élève les Gizmos renforce le curriculum de Sciences et Maths

- explorez des simulations algébres avec le calculateur
- personnalisez les guides d'enseignement et le matériel de cours
- discutez des pratiques pédagogiques à privilégier avec les Gizmos

Pour vos inscriptions à une session, cliquez sur le date qui vous conviend le mieux.

**Maths 3e à 6e**

Date	Time
22 août	9:00-10:00 am
28 septembre	4:00-5:00 pm

**Sciences 3e à 6e**

Date	Time
22 août	9:00-10:00 am
28 septembre	4:00-5:00 pm

# Getting Started



[Learning Opportunities](#)

[Curriculum Resources](#)

[General PL Resources](#)

[News & Podcast](#)

[About Us](#) 





# Learning Opportunities

Search by title, facilitator, session code



[Focus \(All\)](#) ▾

[Region \(All\)](#) ▾

[Month \(All\)](#) ▾

[Delivery Method \(All\)](#) ▾

[Clear All](#) ✕

# Curriculum Resources

Search by title or keyword 

[Subject Area \(All\)](#) ▾

[Grade \(All\)](#) ▾

[Resource Types \(All\)](#) ▾

[Media types \(All\)](#) ▾

[Clear filters](#) ✕



**Helping you find places we visited!**

# Science Key Documents

## [All Key Documents](#)

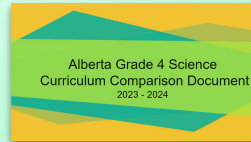
Download the Numbered Outcomes Document;

<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
<a href="#">Living Systems</a>	<a href="#">Living Systems</a>	<a href="#">Living Systems</a>
<a href="#">Matter</a>	<a href="#">Matter</a>	<a href="#">Matter</a>
<a href="#">Earth Systems</a>	<a href="#">Earth Systems</a>	<a href="#">Earth Systems</a>
<a href="#">Energy</a>	<a href="#">Energy</a>	<a href="#">Energy</a>
<a href="#">Space</a>	<a href="#">Space</a>	<a href="#">Space</a>

CPAR Documents are best located by Grade in the drop-down menu on the APLC website. *Resources Type*

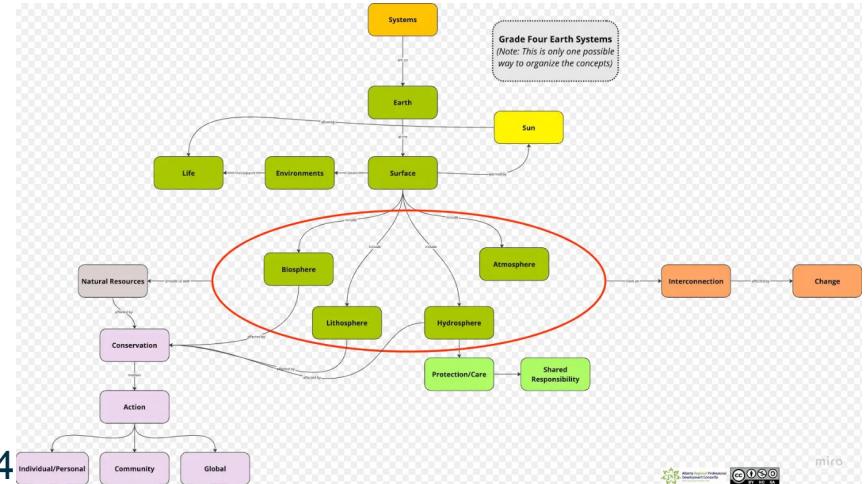
# Concept Maps

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

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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 <u>steps of an investigation</u> grow in <b>complexity</b> and <b>depth</b> from Grade 1 to Grade 6				
Grade 1	Grade 3	Grade 4	Grade 5	GRADE 6
<b>Steps followed during an investigation include:</b> 1) Asking <b>Questions</b> 2) Making <b>Predictions</b> 3) Gathering <b>Data</b> 4) Forming <b>Conclusions</b>	<b>Data</b> <ul style="list-style-type: none"> <li>Accuracy</li> <li>Objectivity</li> <li>Sources (Accurate &amp; Trustworthy)</li> </ul> <b>Analyzing</b> <ul style="list-style-type: none"> <li>Techniques</li> </ul>	<b>Data</b> <ul style="list-style-type: none"> <li>Descriptive (qualitative)</li> <li>Numbers (quantitative)</li> <li>Relevance</li> </ul> <b>Evidence</b> <ul style="list-style-type: none"> <li>Data that supports the conclusion becomes evidence</li> <li>Reliability</li> <li>Validity</li> </ul>	<b>Phenomena</b> <ul style="list-style-type: none"> <li>facts or events that can be observed</li> </ul> <b>Bias</b> <b>Variables</b> <ul style="list-style-type: none"> <li>Manipulated (independent)</li> <li>Responding (dependent)</li> <li>Controlled</li> </ul> <b>Experiment</b> <ul style="list-style-type: none"> <li>Controlled Experiment</li> </ul> <b>Evidence Communication</b> <ul style="list-style-type: none"> <li>Representation</li> <li>Clarity &amp; Accuracy</li> </ul> <b>Scientific Ethics</b>	<b>Explanations</b> <ul style="list-style-type: none"> <li>Hypothesis</li> <li>Testable (falsifiable)</li> <li>Use of reliable objective data and evidence</li> <li>Describe natural phenomena</li> <li>Use of variety of texts and representations</li> </ul>
Grade 2				
<b>Procedures scientists use to guide investigations include:</b> 1) Asking <b>Questions</b> 2) Making <b>Predictions</b> 3) <b>Planning</b> the Investigation 4) <b>Observing and Recording Data</b> 5) <b>Analyzing</b> Data 6) Reaching <b>Conclusions</b> 7) <b>Discussing</b> Observations and Conclusions		<b>Système international d'unités</b> <ul style="list-style-type: none"> <li>international system of units</li> </ul>		

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

# Computer Science & CPAR (Curriculum Planning and Assessment Resource)

## 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)

[Introduction to the APLC Website:  
What's Available to Help Me Plan?](#)

| [APLC Summer Symposium 2025](#)

# Project Based Approach

Supporting every educator  
in every classroom



**SUMMER SCIENCE  
SYMPOSIUM**

**A Project Based  
Approach**

**Alberta Science  
Curriculum Grades 4 - 6**



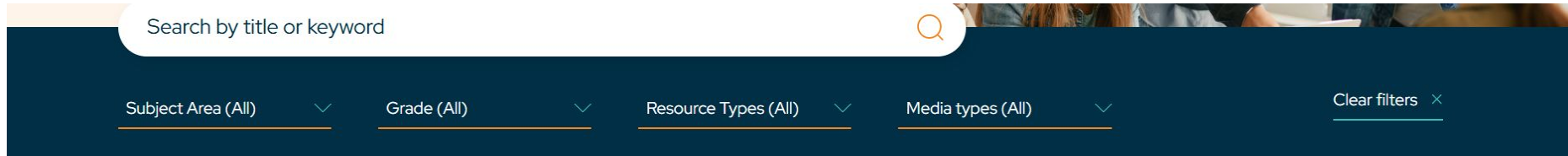
[Video and Slide  
Deck](#)

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

| APLC Summer Symposium 2025

# 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

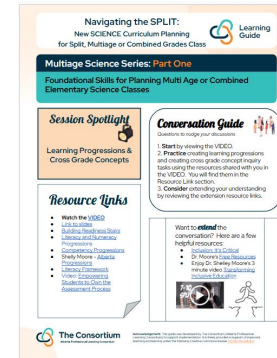
Supporting every educator  
in every classroom



## [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!

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[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.



**The Consortium**

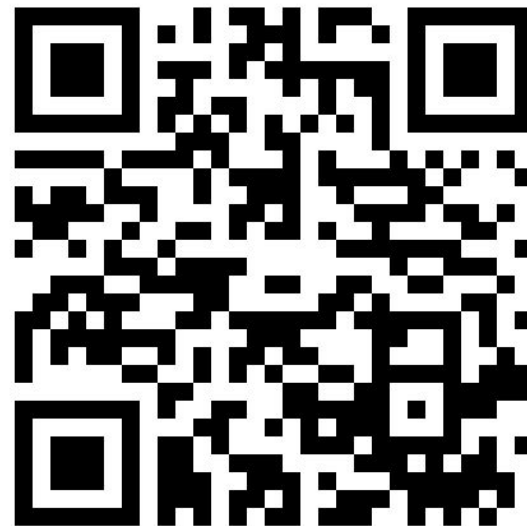
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## APLC Post Session Survey

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](https://aplc.ca)

Slide Deck



