



The Consortium
Alberta Professional Learning Consortium

Grade 4-6 Science

Curriculum and Planning, and Assessment Resource

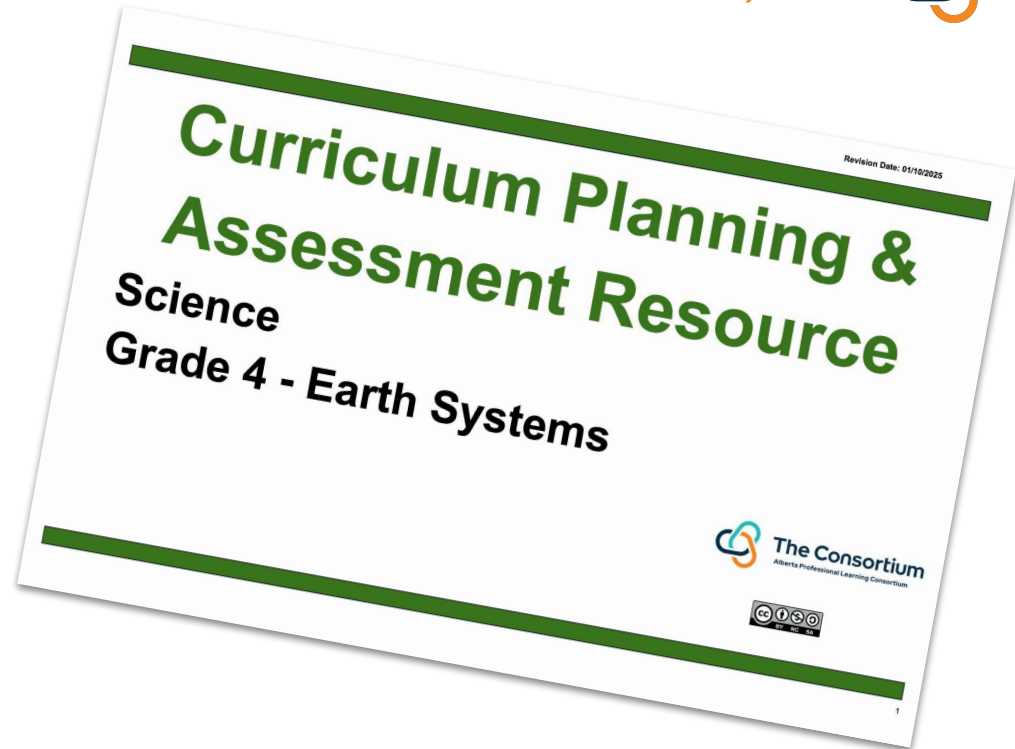
APLC Summer
Symposium
August 18, 2025



Agenda



1. The Learning Process
 - a. Surface-Relate -Deep-Transfer
2. CPAR Architecture
 - a. The Introductory Resource Page
 - b. Sample Summative Assessments
 - c. KUSP Overview Page
 - d. KUSP Learning Activities and Formative Assessment Samples
 - e. Learning Resources



Acknowledgement

Supporting every educator
in every classroom



Chokecherries



APLC Land Acknowledgement

Phases of Learning



Surface



Deep



Transfer

Phases of Learning

Surface



**Relate &
Deepen**



Transfer

Surface level learning occurs when students gain intellectual understanding of the concepts, terms, skills, facts, and vocabulary of a topic.

Phases of Learning

Surface



**Relate &
Deepen**



Transfer

Example:

What is human activity?
What is the hydrosphere.

Phases of Learning

Surface



**Relate &
Deepen**



Transfer

Example:

What is human activity?
What is the hydrosphere.

Deep learning occurs when students
a) build organized understanding
(relate concepts)

Phases of Learning



Surface



**Relate &
Deepen**



Transfer

Example:

What is human activity?
What is the hydrosphere.

Example:

What is a relationship between human activity and the biosphere?

Provide an example to support your claim.

Phases of Learning

Surface



Relate &
Deepen



Transfer

Example:

What is human activity?
What is the hydrosphere.

Deep learning occurs when students

- build organized understanding (relate concepts)

- *apply understanding to many contexts that are similar, but new with guidance and feedback (deepen)*

Phases of Learning



Surface



**Relate &
Deepen**



Transfer

Example:

What is human activity?
What is the hydrosphere.

Example:

Provide students with several contexts such as a videos, photos, case studies or field trips. For example, show a video of deforestation. Ask *“Does the context or case support the relationship you made, or did you have to change your understanding? How?”*

Phases of Learning

Surface

Surface level learning occurs when students gain intellectual understanding of the concepts, terms, skills, facts, and vocabulary of a topic.



Relate & Deepen

Deep learning occurs when students

- build organized understanding (relate concepts)
- apply understanding to many contexts that are similar, but new with guidance and feedback (deepen)



Transfer

Transfer of learning occurs when students apply [independently] these connections [and skills] to new situations [that are novel and unfamiliar].

Phases of Learning

Surface

Surface level learning occurs when students gain intellectual understanding of the concepts, terms, skills, facts, and vocabulary of a topic.



Relate & Deepen

- Deep learning occurs when students
- build organized understanding (relate concepts)
 - apply understanding to many contexts that are similar, but new with guidance and feedback (deepen)



Transfer

Example:

Students observe the schoolyard or a nearby park and identify signs of human impact (litter, trampled plants, footpaths, planted gardens). Students document their findings in a field journal or photo collage with explanations of how each example affects the biosphere (positive or negative).

Thank you

Please visit our website for more information

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