



Alberta Regional Professional Development Consortia

Adult learning for students' sake

Title: Science Grade 4 Computer Science - Curriculum Planning and Assessment Resource (CPAR)

Description:

This resource is intended to be a collection of sample activities, assessments, and resources that teachers may wish to use as they plan to teach aspects of the Computer Science organizing idea in Grade 4 Science.

The document is sectioned into KUSP lines. Each KUSP line section presents sample instructional activities, assessment activities and resources in a manner that supports the Surface>Deep>Transfer phases of learning approach.

Samples activities and resources are provided for the following

- unplugged and plugged coding
- computational and design thinking
- ways of infusing Indigenous knowledge
- ways of integration Computer Science concepts and skills into other Science organizing ideas

Each KUSP line section concludes with links to other more general resources related to the understandings.

At the end of the document is a grade-appropriate literature collection that can be used to support the understandings in Grade 4 Computer Science

The document also includes links to the following ARPDC Science Resources:

- a pre-recorded one-hour session that unpacks the Living system organizing idea.
- a Science planner
- an assessment planner
- a concept map of Grade 4 Computer Science
- a K-3 skills and procedures progression
- a K-6 concept progression
- a Numbered Outcomes Document
- a Concept and vocabulary bank for Grade 4 Computer Science

Also included are 15-20 minute instructional videos on the following:

- "How to Use This Document"
- "What is Surface-Deep-Transfer?"
- "How to Use The Science Planner and Assessment Planner."

Key Points of the Resource:

This is a comprehensive resource for teachers who are beginning to teach the new K-3 Science Curriculum.

Materials in the package and/or other materials to have on hand to use the resource

There is nothing else that you will need to use this resource. Everything you need is linked within.

Suggestions to best utilize this resource:

Teachers can pick and choose from the variety of instructional activities, assessments, and resources in the document to begin planning units of study that fit their context.