

## From Aims to Means:

## **B.C.'s Curriculum & Climate Education**

CETE WORKSHOP 2 IN THE FALL 2023 / SPRING 2024 SERIES

Partners/Design Team









Friday November 24, 2023 1:00-2:30 PM

# Land Acknowledgment: People, Place and Land

## Traditional Territory Acknowledgement

Since time immemorial, Indigenous peoples have walked gently on the diverse traditional territories where the University of Northern British Columbia community is grateful to live, work, learn, and play. We are committed to building and nurturing relationships with Indigenous peoples, we acknowledge their traditional lands, and we thank them for their hospitality.

The **Prince George campus** is situated on
the unceded traditional
territory of the Lheidli
T'enneh First Nation,
part of the Dakelh
(Carrier) peoples'
territory.



The South-Central campus in Quesnel is situated on the unceded traditional territories of the Lhtako Dene Nation, Nazko First Nation. Lhoosk'uz Dené Nation, and ?Esdilagh First Nation (formerly Alexandria Band). Lhtako, Nazko, and Lhoosk'uz are on traditional Dakelh territor y, and ?Esdilagh is a member of the Tsilhqot'in Nation.

The **Northwest** campus in Terrace is situated on the unceded traditional Ts'msyen (Tsimshian) territory of the Kitsumkalum and Kitselas First Nation. It includes a satellite campus in the coastal community of Prince Rupert, situated on the unceded traditional Tsimshian territory of the Lax Kw'alaams Band and Metlakatla First Nation.

## Agenda

Aims and Means to know where are we going?

- Part 1 Follow up from WS#1
- Part 2 First exploration of B.C. Curriculum & climate change education- Core Comps
- Part 3 Means & Aims: relationship & alignment
- Part 4 Take-aways







For prior CETE Workshops, click QR code

Core Comps

& FPPL

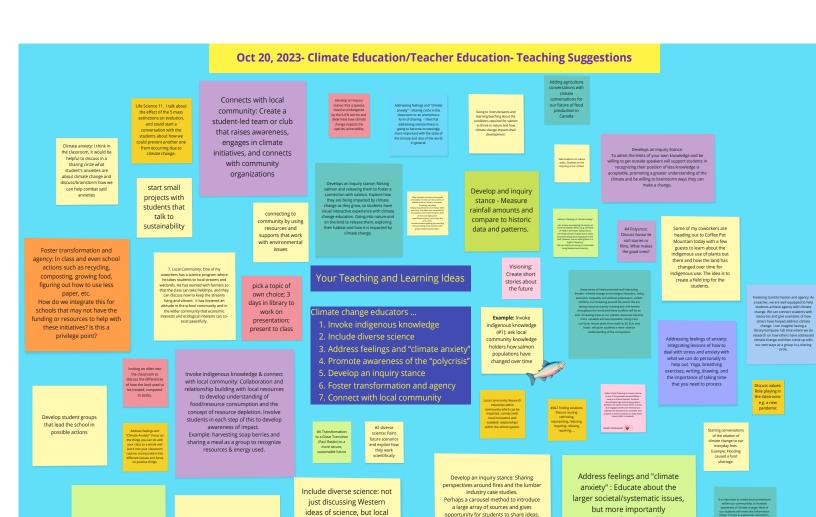
**Your Requests** 

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- ► Participant input: Requested topics
- ► WS#1- optional call: Your classroom observations?
- Miro concept map



- Integrate Climate Education across and the BC curriculum
- Gaps in the BC curriculum and climate change education
- Peer-supported collaborative curriculum
   design Aims & Means Future workshops
- Lesson planning and climate change education
- Motivating learners and climate change education
- Considering learner values and climate change education
- Dealing with feelings (anxiety, apathy, denialism, fatalism, false optimism) around climate change



Use journals entries for students to

record their feelings after we discuss

Some sort of exploration on the

regeneration of tree and how that works.

knowledge from the

Indigenous community,

how it was/is used,

showing students what this

looked/looks like with

visual representations

Create plans, within the

school, that provide a

visual learning experience

for the students

Develop/assign projects

that invoke actionable

steps, where learners can

experience what it feels like

to take steps towards being

a responsible global citizen

recommending/introducing

small actions that individuals can

tackle. Try to encourage small

acts of advocacy rather than

leaving students feeling

powerless or overwhelmed.

What did you observe in Classrooms?

Did you apply the Miro input to your teaching & learning context?

See hand-out

## Part 2 - First exploration of B.C. Curriculum

Situating climate change in the

**B.C.** Curriculum

- Core Competencies as Aims
- The 'Wheel' and Core Competencies



## Situating Climate Change in B.C. Curriculum

► Many challenges exist in communicating about the social and scientific aspects of climate change between scientists and teachers and students – one of these challenges is the "environmental gap" in the BC K-12 curriculum, particularly the perceived lack of emphasis on climate education





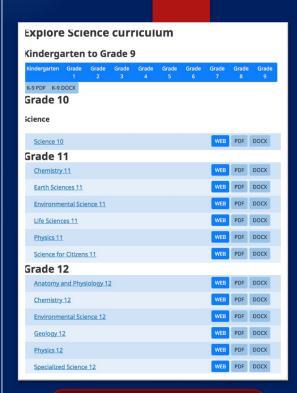
- Recommended topic in Science 7
- Side topic in Science 9, Science 10
- Possible topic in some science electives
- Suggested subtopic in Social Studies

## Climate Change in B.C. Curriculum

#### **BC Ministry of Education:**

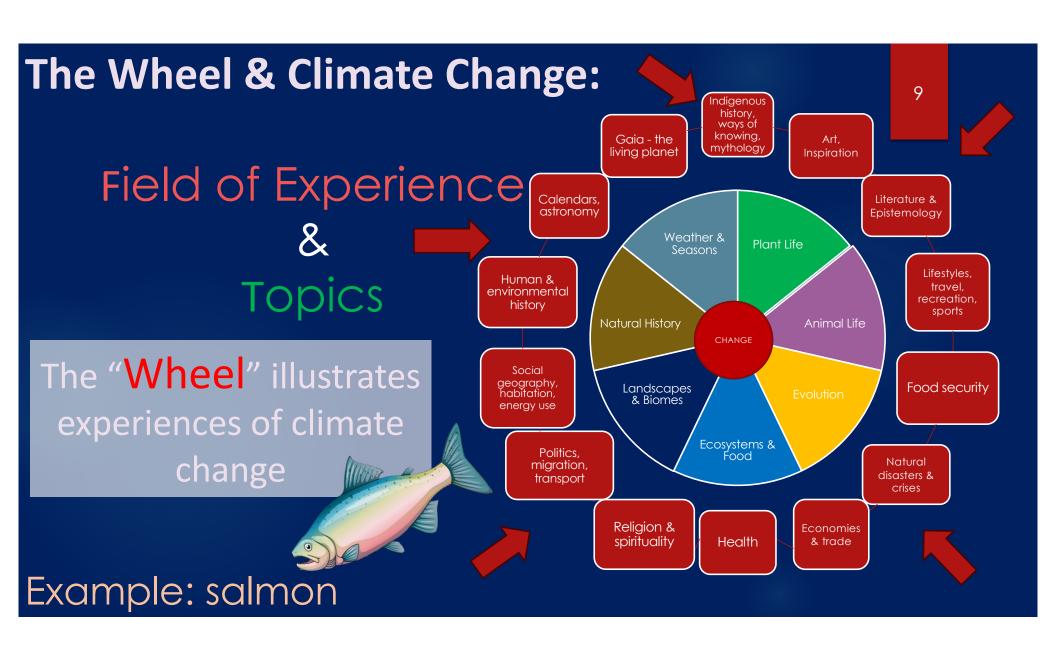
"The K–12 education system is rising to the challenge of educating students to build climate resilience in uncertainty, to mitigate the impacts of climate change through preparedness and adaptation, and to contribute to climate solutions as change-makers and leaders"

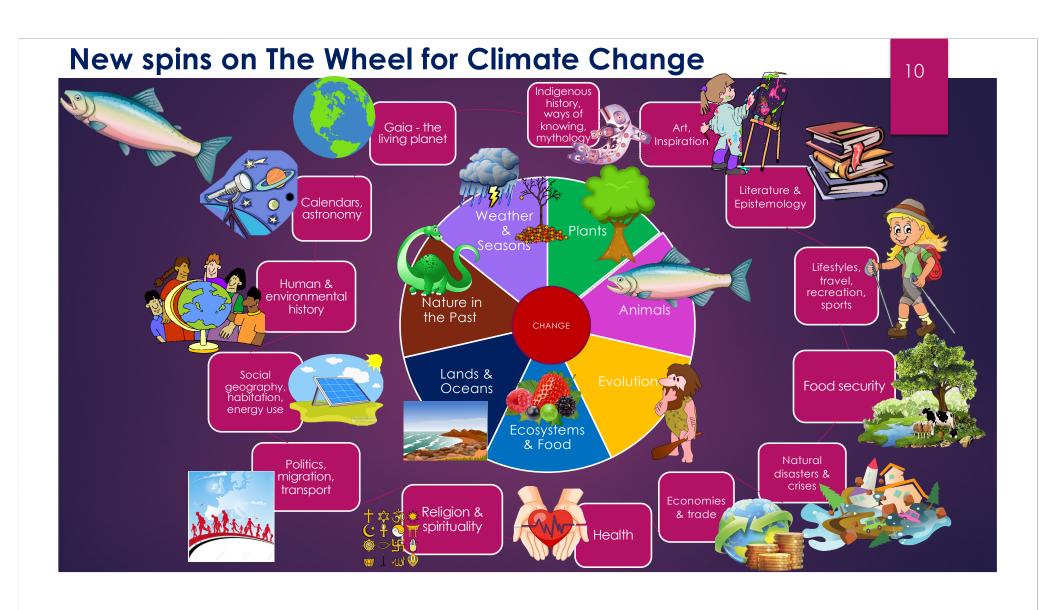
"The curriculum is concept-based and competency-driven and provides many opportunities to explore climate change in varying levels of detail, across learning areas and grades. For example, topics related to the environment and climate change are found in the required learning standards throughout the provincial science curriculum from Kindergarten to Grade 10"



" TEACHER AGENCY"

https://www2.gov.bc.ca/gov/content/education-training/k-12/administration/program-management/climatechangeeducation





#### Core Competencies 🙏









#### Communication

- · Connecting and engaging with others
- · Focusing on intent and purpose
- · Acquiring and presenting information

#### Collaboratina

- · Working collectively
- · Supporting group interactions
- Determining common purposes

#### **Creative Thinking**

- · Creating and innovating
- · Generating and incubating
- · Evaluating and developing

#### **Critical & Reflective Thinking**

- · Analyzing and critiquing
- Questioning and investigating
- · Designing and developing
- · Reflecting and assessing

#### Personal Awareness & Responsibility

- Self-advocating
- Self-regulating
- Well-being

#### Positive Personal & Cultural Identity

- Understanding relationships and cultural contexts
- · Recognizing personal values and choices
- · Identifying personal strengths and abilities

#### Social Awareness & Responsibility

- · Building relationships
- · Contributing to community and caring for the environment
- Resolving problems
- Valuing diversity

## Core Competencies:

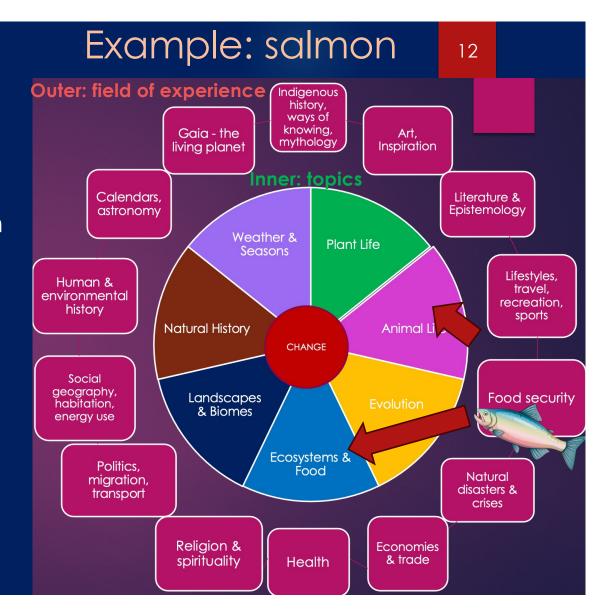
Aims & Means

Aims and Means are confusing!?!

# Breakout Activity: Connecting Wheel & Core Competencies

#### **Task**

- 1. Choose a field of experience in the outer wheel.
- 2. Identify a topic in the inner wheel.
- Connect Core Competencies to field of experience & topics.
- Post to Miro Mind Map
- 5. Report out on decisions



#### 1. Task Illustration: Connecting the Wheel & the Core Competencies

Step 1

Outer wheel



Core Comps

Step 2

Inner wheel

Field of Experience

You choose

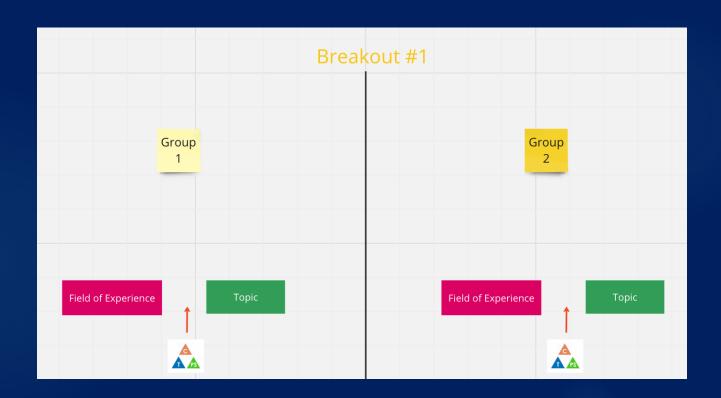


Step 3



Return to during reporting

## Miro Work



#### Reporting: Connecting the Wheel & the Core Competencies

#### Review examples

Outer wheel

Field of Experience

You choose







Core Comps



Core Comps

Your Specific
Climate
Change
Topic

Your choice

## Part 3- Means & Aims: Relationship & Alignment

#### " TEACHER **AGENCY**"

Aims and Means are confusing for everyone

#### **Core Competencies** (B.C. MoE)

- [C] Communicating; collaborating;
- [T] Critical and reflective thinking; creative thinking;
- [P&S] Personal awareness and responsibility; Positive personal and cultural identity; social awareness and responsibility

#### First People's Principles of Learning (FNESC)

- Learning supports well-being
- Holistic, reflexive, reflective, experiential, relational
- Recognises consequences
- Involves responsibilities
- Recognises role of indigenous knowledge
- Embedded in memory, history, story
- Involves patience and time
- Requires exploration of one's identity
- Recognising that some knowledge is sacred

Conclusion: Aims can be Means & Means can be Aims. You decide!!!

## Means & Aims: Climate Change Ed

'AIMS'

**CETE** initial List

Confusing!?!

**'MEANS'** 

Develop a Community of Learners
that ....

- are resilient
- support holistic security
- reflect on their values
- understand climate justice
- learn from Indigenous practices
- develop crisis solutions

- Alt. concepts of 'progress'
  - Develop an ecocentric/ environmental ethic
    - Practice collaboratively
- Explore common future visions
   Promote inquiry learning
- Reduce resource dependency
  - Increase local sustainability

Conclusion: Aims and Means run along a single continuum. You decide!!

#### So, How Do I sort my Aims from Means?!?

**Sorting: Aims** 

**Sorting: Means** 

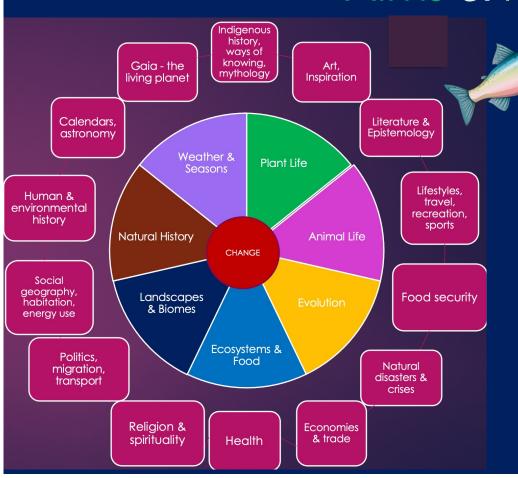
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- School priorities
- Community needs
- Local Outer/Inner Wheel
   Relationships
- CETE High-Level Conjectures
- Core Comps
- FPPL

- Leadership ability
- Age/ grade level / learning styles
- Interdisciplinary priorities
- Continuity across grades
- Resource Availability for curriculum design
- Assessment approach

# The Wheel & Climate Change Aims & Means

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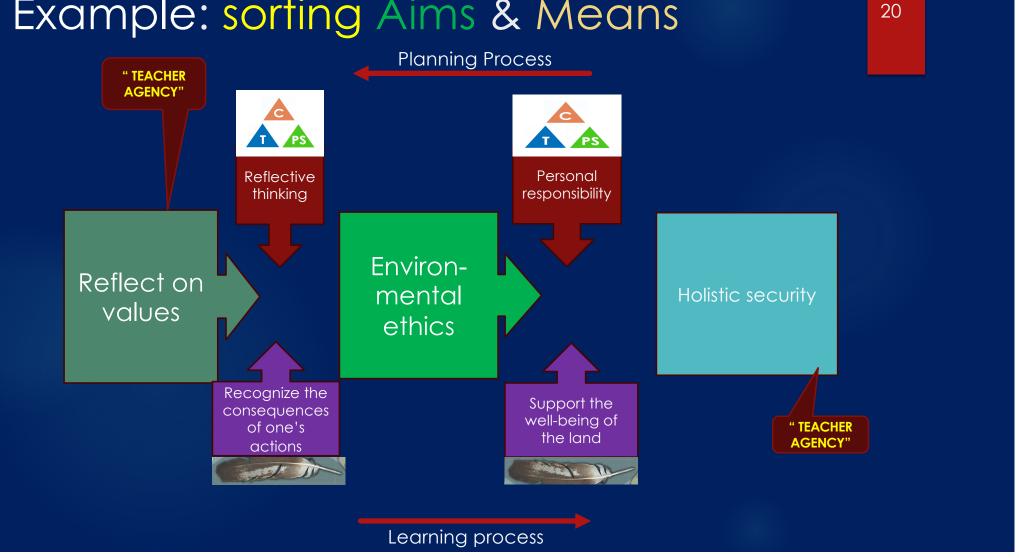


#### 'AIMS'

Develop a Community of Learners
that ....

- are resilient
- support holistic security
- reflect on their values
- understand climate justice
- learn from Indigenous practices
- develop crisis solutions

## Example: sorting Aims & Means



## Breakout Activity: Sorting Aims and Means

Task:

Return to your field of experience, topic,

& Core Competencies from Breakout #1

▶ Select ONE Climate Change aim and

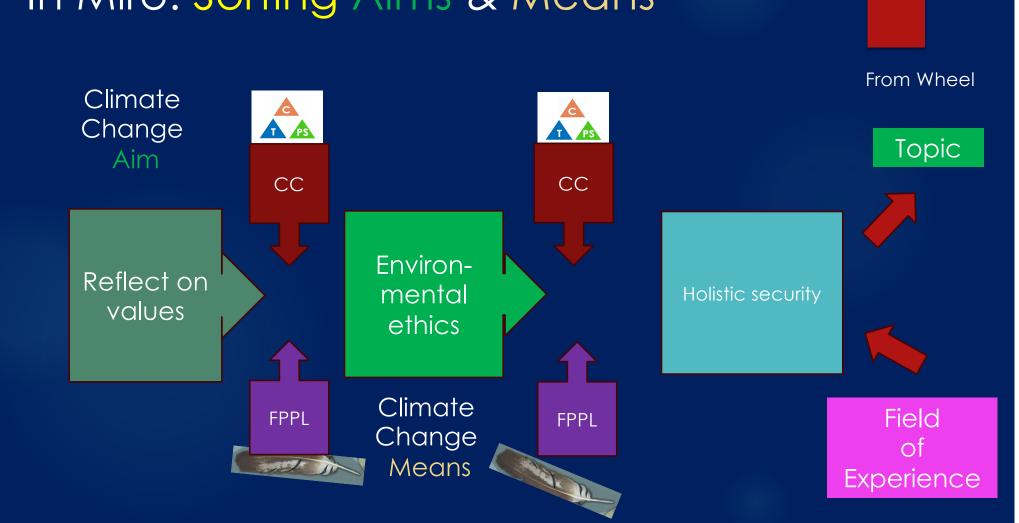
ONE Climate Change means (see handout)

▶ Connect all parts with relevant

core competencies and FPPL



## In Miro: Sorting Aims & Means



## Reporting: Back from Breakout/Miro



Let's go to Miro via Share Screen

## Part 4 – Castaways & Sea Legs



# " TEACHER AGENCY"



CETE
Climate
Change
Aims
&
Means



Aims & Means

Call to Action
Try tying various
aims & means
into your
planning....yearly
& units

## CETE Workshop #3: Jan 29, 2024

## **Aims and Means to Lesson Planning**



Further exploration of B.C.

**Curriculum & climate change** 

education – via Lessons

