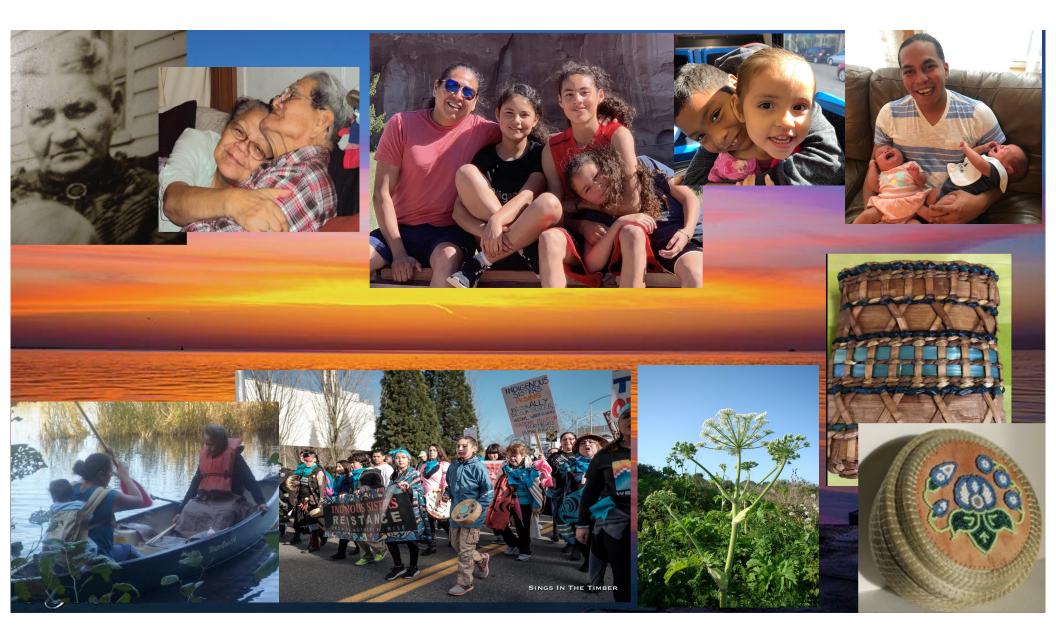


#### Transform Schools Transform Truancy

Megan Bang Northwestern university 5.12.23



#### Plan for Today:

## 1) Curriculum/Content Goals of Schooling

- 2) Power dynamics
- Educators and students
- Schools and families
- Students

3) Pedagogical Practices: The how of teaching and learning

We should move away from deficit mindsets and theories of change where the point of intervention is our children and families. We must understand the specific history and purposes of education with respect to Native peoples.

How can we transform the historical and relational conditions of schooling:

- So that schools deserve Native children?

- So that schools are places where Native children and families want to be?

- So that schools contribute to Native peoples thriving?

#### Proposition 1:

Significantly rethink the learning goals of schooling in ways that reflect the present but also future needs of Native communities.

INCREASE STUDENT WELLBEING INCREASE STUDENT INTEREST, MOTIVATION, & ENGAGEMENT DISCIPLINES ARE ALREADY TRANSFORMING – HOW LONG WILL IT TAKE FOR SCHOOLS TO CATCH UP?

#### Attendance mirrors presence/absence in schools

#### Schools are largely built on Indigenous absence...

- Standards
- Teacher Preparation/Requirements
- Curricular Resources
- Schools today are the main drivers of Indigenous absence in peoples' knowledge enabling systemic racism and challenges for Native peoples.
- Indigenous youth face mental health challenges at a significantly different rate than other youth – A key issue is being able to imagine a present and future self (Elliot & Fryberg, 2020).

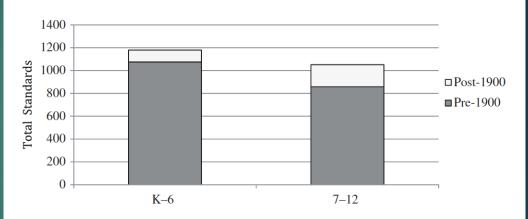


Figure 1. Number of Coded Standards Pre- and Post-1900

Only 50% of states require teaching about Indigenous peoples. 87% of US educational standards dictate the teaching of Indigenous peoples in the context of pre-1900 U.S. history (Shear et al. 2015).

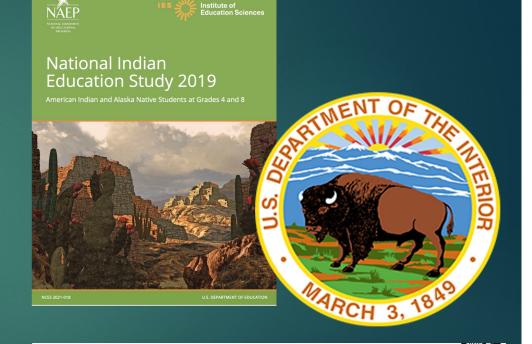
#### Teachers Report Broad Absence or Minimal Presence of Native People & Communities...

#### Language Arts/Social Studies

- ▶ 4<sup>th</sup> grade
  - Overall 52% say never or once a year
- ▶ 8th grade
  - Overall 73% say never or once a year

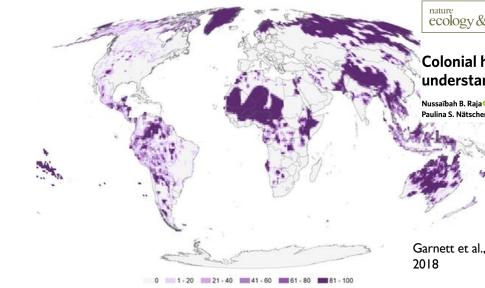
#### Mathematics

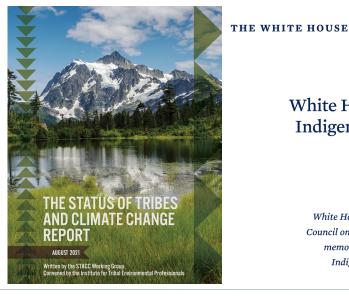
- ► 4<sup>th</sup> grade
  - Overall 85% say never or once a year
- 8th grade
  - Overall 88% say never or once a year



Department of the Interior Releases Investigative Report, Outlines Next Steps in Federal Indian Boarding School Initiative

5/11/2022





#### ecology & evolution

ARTICLES

#### Colonial history and global economics distort our understanding of deep-time biodiversity

Nussaïbah B. Raja ◙ 1.8 ⊠, Emma M. Dunne 10 2.8, Aviwe Matiwane 10 3.4, Tasnuva Ming Khan 10 1.7, Paulina S. Nätscher 1, Aline M. Ghilardi 5 and Devapriva Chattopadhvav

> What do our children need to learn to ensure liveable, culturally thriving, and sovereign futures?

- Indigenous territories contain 80% of the world's biodiversity
- 1/4 of all land (outside Antarctica) is in Indigenous hands
- 95% of climate change hotspots are in Indigenous communities.

Frechette et al., 2018; Reytar et al., 2018; Brigitte et al, 2016; Olney & Viles, 2019



#### NEWS & UPDATES

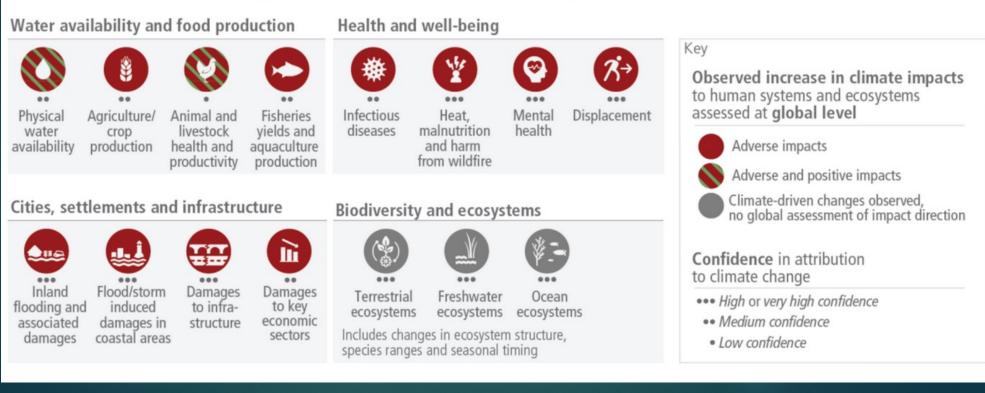
White House Commits to Elevating Indigenous Knowledge in Federal **Policy Decisions** 

NOVEMBER 15, 2021 · PRESS RELEASES

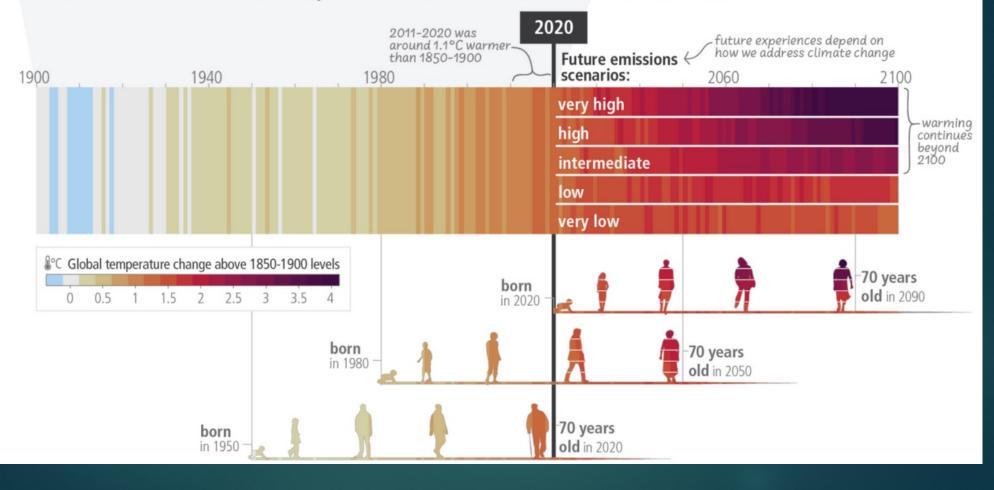
White House Office of Science & Technology Policy and Council on Environmental Quality release first-of-its kind memorandum to initiate new federal guidance on Indigenous Traditional Ecological Knowledge

	UN News			Search		
Nations		erspective Huma		:		Advan
Home <del>-</del> Topics	-	In depth	-	Secretary-General	-	Media

# a) Observed widespread and substantial impacts and related losses and damages attributed to climate change



c) The extent to which current and future generations will experience a hotter and different world depends on choices now and in the near-term

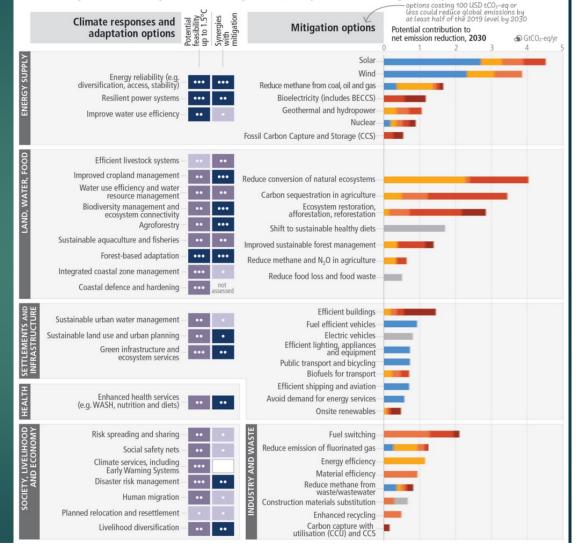


# Equity and Inclusion a UN Priority

Prioritising equity, climate justice, social justice, inclusion and just transition processes can enable adaptation and ambitious mitigation actions and climate resilient development. Adaptation outcomes are enhanced by increased support to regions and people with the highest vulnerability to climatic hazards. Integrating climate adaptation into social protection programs improves resilience. Many options are available for reducing emissionintensive consumption, including through behavioural and lifestyle changes, with cobenefits for societal well-being. (high confidence) {4.4, 4.5}

#### There are multiple opportunities for scaling up climate action

a) Feasibility of climate responses and adaptation, and potential of mitigation options in the near-term



#### Youth know. Youth care. Can we create schools that support their interest & motivation?

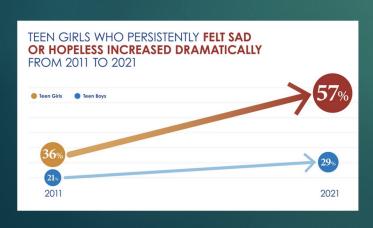


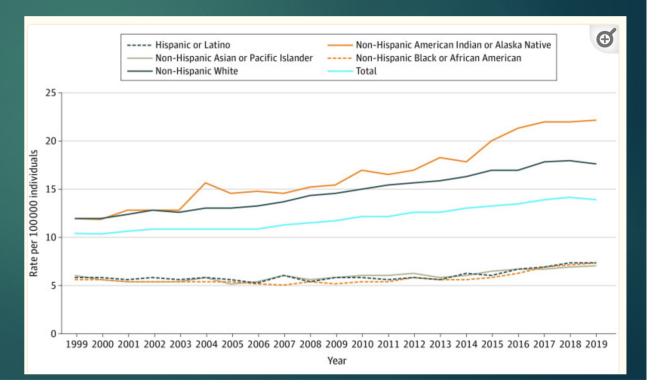
By Madeline Will — December 07, 2022 🕕 12 min read

## Growing Need for Learning Environments to Be Focused on Making Just and Sustainable Futures.

Tended to operationalize mental health as distinct from or in preparation for learning.

Need to understand that what and how we think & learn are intertwined.





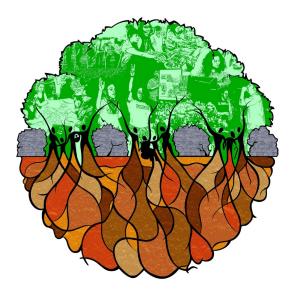
## Concluding Recommendation

Learning goals of schooling should reflect the present and future needs of Native communities. Require schools to include content about Native people past, present and future routinely and across content areas.

#### Proposition 2:

Deliberately shift the historically accumulating power dynamics between student, families, communities and schools

- 1) ENGAGE LOCAL AND LIVED INDIGENOUS KNOWLEDGES MEANS A TRANSFORMED UNDERSTANDING OF FAMILIES AND COMMUNITIES
- 2) ENGAGE FAMILIES AND COMMUNITIES AS CO-DESIGNERS OF EDUCATIONAL CHANGE
- 3) SCHOOLING SHOULD BE RESPONSIVE TO COMMUNAL RHYTHMS\*

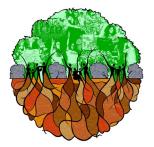


# Cultivating Relationships with Families & Communities Towards Education Justice & Community Wellbeing

Findings from the Family Leadership Design Collaborative



A Partner With Communities Where Children Come First



### Imagining New Possibilities for Equitable Processes of Partnering

1) Field has begun to recognize asymmetrical power dynamics and made strides beyond deficit based "fix parent" approaches (e.g. Baquedano-Lopez et al. 2013)

2) And yet in practice processes of partnering continue to operate within White, normative, and powered paradigms

3) So-called partnerships position families & communities outside of key decision making spaces, even when they seek their expertise (Auerbach, 2011)

Need to figure out how enact new partnerships and imagine new possibilities



### FLDC Core Design Principles

FLDC Vision of **community wellbeing and educational justice** seeks to cultivate, enact, and sustain:

whole, healthy children in culturally
thriving families & communities
relational, communal, and collective
approaches to change-making
just institutions, policy, and practices

<u>Held 4 community circles in 10</u> <u>communities- circles 2-3 hours each.</u> Beginning with Family & Community Ecologies

Refusing and Disrupting Normative Power Dynamics

**Enacting Solidarities in Collective Change-Making** 

**Creating On-Going Transformative Possibilities** 

#### Theories/strategies for change emergent from families



Improving Parenting Within Systems Reclaiming Systems Dreaming

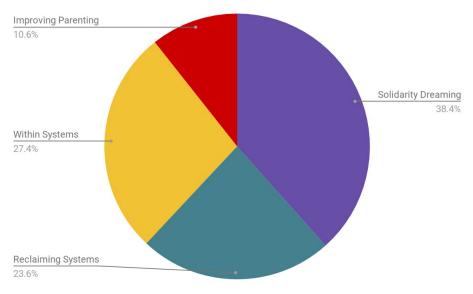


Figure 1. Distribution of theory of change "families"

Sustained conversation increase solution focus beyond family change itself. Single focus group approaches skew our understandings

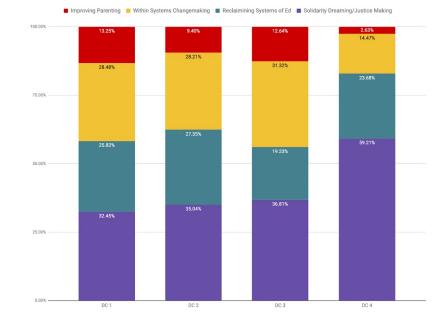
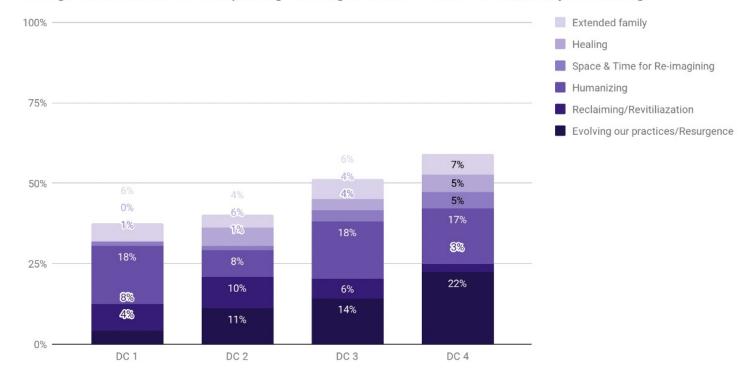


Figure 3. Percentage of theories of change discussed across all collaboratives, over time (DC=Design Circle)

# Healing Yes – And Future Making/Dreaming Most Prevalant



Design Collaboratives Completing 4 Design Circles - Shifts in Solidarity Dreaming



Native, Black, and Iranian/Muslim Communities Most Likely to Think Change Making Must Be Community Centric

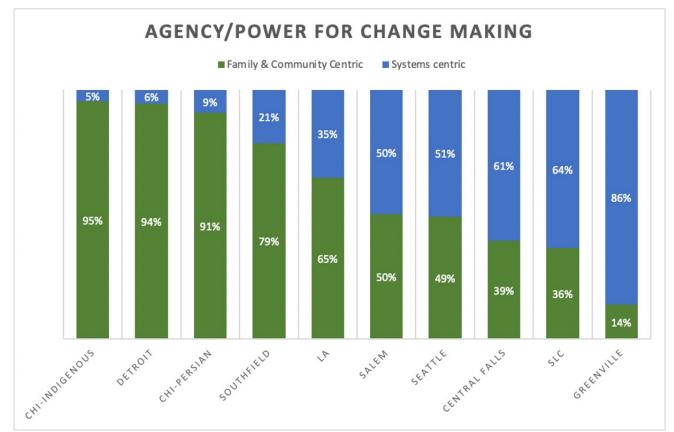
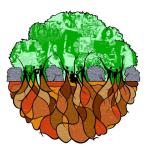


Figure 2. Percentage of codesign sessions focused on family and community-centric and systems-centric logics, by collaborative.



# Concluding Recommendation

Create and support processes of co-design and leadership with families and communities in school change in ways that recognize historically accumulating power dynamics. This requires new forms of ongoing relationship building and sustainment. Ensure family engagement is collectively focused not singular. Do not do single listening sessions. It facilitates the least transformative thought and tends to replicate parenting interventions.

## Recommendation 3:

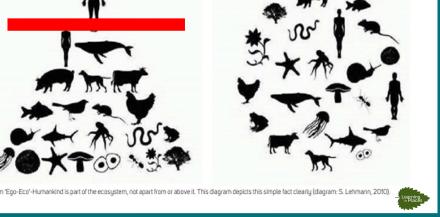
Teaching and Learning needs to be based in and with lands, waters, and communities. Schools should aim for at least 25% of learning to be outdoors.

- 1) NECESSARY TO ACCOMPLISHING ACTUAL CULTURALLY RESPONSIVE EDUCATION
- 2) SEASONALLY FOCUSED LEARNING WILL SUPPORT NEEDED ADAPTATION AND MITIGATION
- 3) "OUTDOOR LEARNING" HAS SIGNIFICANT PHYSICAL & MENTAL HEALTH BENEFITS AND SUPPORTS MORE RIGOROUS LEARNING

#### Nature-Culture(Human)Relations are Foundational: "A part of" or "apart from" models?

- Organizes human activity across developmental time
- Shapes knowledge systems, values, and practice
- Shaped by power and history
- Foundational to human development and cognition
- Centrally configures learning environments

Part 1: Core Cognitive Models of Human Relationships with the Natural World



These models shape core cultural, cognitive, and biological processes as well as everyday activity. "Apart from" models have been foundational to paradigms of "human supremacy & entitlement." "A part of" models are associated with systems reasoning and more sustainable decision-making. There is a need to cultivate "a part of" models given climate change and adaptation demands of the 21<sup>st</sup> century.



### I Spy an Ecosystem!

#### Current forms of education are built on and teach "Apart from" models of nature-culture relations.

- Structure our "representational ecosystem" (e.g. books, media, diagrams) (Medin & Bang, 2014)
- Structures content learning (e.g. the US has invested in lab-based science infrastructure, not field based)
- Cultivate fragmented human centric reasoning (not whole systems) and unsustainable decisionmaking (e.g. Medin et al. 2012).
- Created systemic sedimentary bias and multiplying health impacts (e.g. stress & cortisol; microbiome diversity) including mental health (e.g. Beyer et al. 2018; Frumklin et al. 2017; Tillman et al. 2018)





# Land- and Water-Based Education (A part of models)

"Indigenous education is not Indigenous or education from within our intellectual traditions unless it comes through the land, unless it occurs in an Indigenous context using Indigenous processes ....we should be concerned with re-creating the conditions within which this learning occurred, not merely the content of the practice itself" (Deloria, 2001, pp. 58-59; See also Smith, 2012; Simpson, 2014).

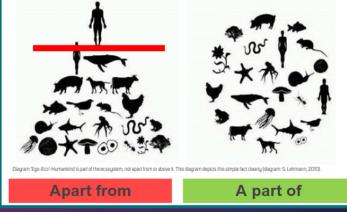
# Project Context

By developing new forms of teaching and learning to support sustainable relationships and socioecological well-being

Learning in Places

- Transdisciplinary education with a focus on science, social-studies, and ELA.
- Co-designed with families, educators, administrators
- Engages in local inquiries connecting learning objectives with students lives.
- Focused on pk-5th grade but utilized pk-16
- Seasonal Storyline for school-based instruction

Part 1: Core Cognitive Models of Human Relationships with the Natural World

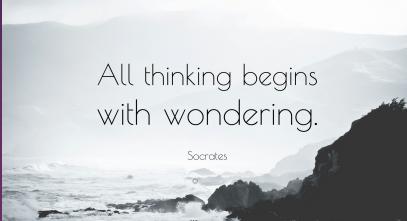


- 98 hours of video data gathered from classroom implementation.
- Coded at 5-minute intervals for content learning and wondering practices.
- Differences between indoor and outdoor forms of teaching and learning studied.

#### Wonder...key aspect social-emotional learning (Sherry-Wagner, 2023)

- Involves possibility thinking, navigation uncertainty, & perspective taking
- Has affective-emotional (feeling) and cognitive-motivational dimensions (knowing)
- "Preparing the ground" for affectively-rich socioecological sensemaking and possibility thinking via Learning in Places

Learners should have a right to learning landscapes characterized by wonder in ways that expand affective possibilities for life & learning



A key dimensions of wonder:

"Wondering at" (distinct from about) manifests in expressions of awe, joy, and "grandness" of unknown but also interest in understanding.

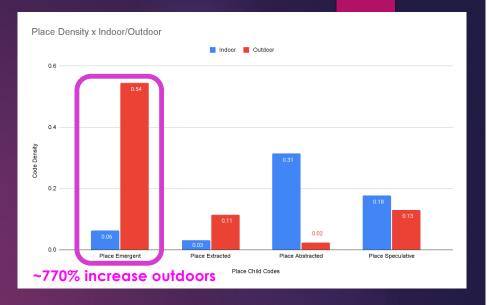
Learning in Places

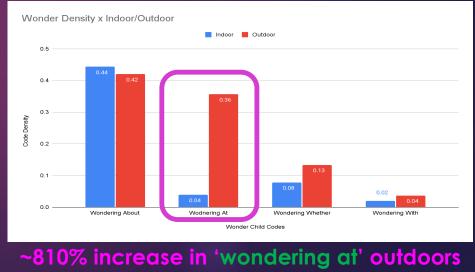
# Key Findings (Sherry-Wagner, 2023)

Being **outdoors** transforms the **emotional** & **cognitive** experience of learning

- Learning outdoors increases students' engagements with learning objectives as connected to their local places.
- Significant increase of expression of wonder and awe about phenomena: being outdoors transforms the emotional experience of learning

\_earning



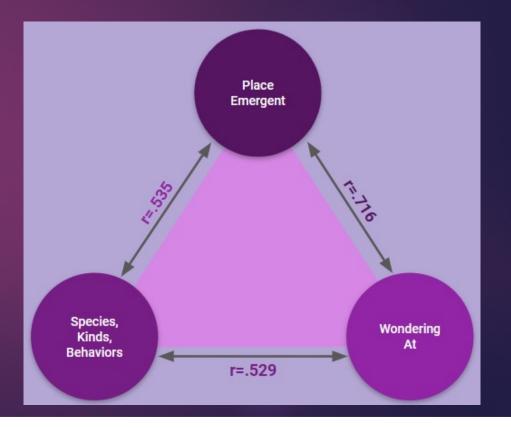


# Learning outdoors also correlated with more rigorous content learning.

Triangulation of significance between place emergent, wondering at, and species, kinds, & behaviors

Transforming the conditions & experiences of learning **AND** engaging rigorous content learning

Learning in Places



# From a principal...

"Not only is this more fun and improves academic outcomes but it moved things we just haven't been able to. We have seen increased attendance, decreased behavioral issues and for the students who come from classrooms who do this we see far less summer learning loss." –

Tribal school principal

# Concluding Recommendation

Support models of outdoor field/placebased education that are attuned to seasonal life and engage familial cultural practices and knowledges in ways that increase learning and support socioemotional wellbeing.

### **Overall Recommendations**

- 1. Ensure learning goals of schooling reflect the present and future needs of Native communities. Require schools to include content about Native people past, present and future routinely and across content areas.
- 2. Create and support processes of co-design and leadership with families and communities in school change in ways that recognize historically accumulating power dynamics. This requires new forms of ongoing relationship building and sustainment. Ensure family engagement is collectively focused not singular. Do not do single listening sessions. It facilitates the least transformative thought and tends to replicate parenting interventions.
- Support models of outdoor field/place-based education that are attuned to seasonal life and engage familial cultural practices and knowledges in ways that increase learning and support socio-emotional wellbeing.