

Resource Links: Outdoor Learning Through the Winter

Learning Bird Webinar, December 10, 2020

Presented By: Ashley Hamilton, Education Specialist, Learning Bird and Lisa Tetlich, Teacher, Fort McPherson

Land Acknowledgement Resources:

[Native-Land](#) - Traditional Territory, Language, and Treaty Interactive Map. (Updated November 2020, run by the nonprofit organization Native Land Digital).

[Uncovering an Oral History of Tkaronto Land Acknowledgement Colonization Road](#) - minds on activity for intro to colonization

[Whose Land?](#) - Territories by Land and Land Acknowledgement

[Guide](#) to Acknowledging First Peoples & Traditional Territory (Canadian Association of University Teachers)

[Land and Territorial Acknowledgement](#) (Amnesty International)

[Driftscape](#): An app that gives a brief history of different landmarks and places in North America. Of these different spots marked are many significant Indigenous places.

[First Story](#) (smartphone app) that shares stories of Toronto's Indigenous community, past and present

Beyond Territorial Acknowledgements

Government of Canada Interactive Maps:

- [First Nation Profiles Interactive Map](#)
- [Inuit Nunangat Community Profile Map](#)

Land-Based Learning Resources:

The National Centre for Collaboration in Indigenous Education (NCCIE):
Land-Based Learning [Playlist](#): Connecting with Land, Language and Culture

NCCIE's [Teacher Resource Centre](#) has an incredible database of K-12 lesson plans developed with an Indigenous perspective. Includes land-based skills and knowledge development, language development, across all subjects and a variety of topics.

NCCIE's video on [What is Land-Based Learning?](#) A Digital Forum (1:06 min)

First Nation Education Steering Committee (FNESC) - Connecting With the Land: Including [Land-Based Activities](#) in Your Units

FNESC Learning First Peoples [Classroom Resources](#)

BC First Nations Land, Title, and Governance: [Teacher Resource Guide \(FNESC\)](#) (Elementary and Secondary)

Science First Peoples [Teacher Resource Guide](#) (Secondary)

Snively, Williams, Wanosts'a7, (2018). [Knowing Home: Braiding Indigenous Science with Western Science, Book 2](#). Chapter 9, page 206, "Learning from the Homeland; An Emerging Process for Indigenizing Education"

Education Alberta's, [Our Words, Our Ways - Teaching First Nations, Métis, and Inuit Learners](#)
Talking Circles and Talking Stick Guidelines (p. 163)
Indigenous views on interconnectedness of all living things (p.16)

[FirstVoices](#) is a suite of web-based tools and services designed to support Indigenous people engaged in language archiving, language teaching and culture revitalization

The Department of Education, Culture and Employment (ECE), Northwest Territories Government:

- [Dene Kede and Inuuqatigiit Curriculum Information and Documents](#)
- [Northern Studies Curriculum Information and Documents](#)
- [Social Studies Curriculum Information and Documents](#)
- Education and Outreach [Environment and Natural Resources](#), including [Let's Go Hunting](#)

Book: [Land Based Education: A Teacher Resource Guide for Schools in Saskatchewan](#)

Outdoor Learning Resources:

First Nations, Metis and Inuit Education Association of Ontario, [Resources](#) (You need to make a username, and may need to get a membership, but this is an incredible resource)

[Soul Trak Outdoors](#) - is a D.C. based nonprofit that connects communities of color to outdoor spaces while also building a coalition of diverse outdoor leaders

Melanin Base Camp's [Speak Up Against Racism Outdoors](#), [Guide to Outdoor Allyship](#), and many other resources and ways to diversify the outdoors.

[Take Me Outside](#) is a selection of excellent teaching resources including ready to go activities and great databases to search for additional resources.

Toronto Environmental Outdoor School (TOES), Toronto District School Board (TDSB)

- [Get Outside Lesson Archive](#) with google drive access to [2019](#) and [2020](#) Lesson Plans

TDSB Webinar Archive: [Environmental Education Webinars](#)

- [Taking K-12 Learning Outside](#)
- [Integrating Learning through Nature Journaling - Part 1](#)

Council of Outdoor Educators of Ontario (COEO): [Outdoor Learning Tips](#) and many more outdoor education resources including an annual [Outdoor Ed Conference](#)

[A Walking Curriculum: Evoking Wonder and Developing Sense of Place](#) (K-12) Gillian Judson

[How to teach nature journaling](#) (John Muir)

[Developing a Sense of Place](#) (Green Teacher)

[Natural Curiosity - Newsletter](#) - Natural Curiosity highlights Indigenous educators and voices in their newsletter

[Math on the Land](#) by Jennifer Baron & Towana Brooks in ETFO Voice Fall 2020

Connecting [Students with Special Needs](#) and the Environment:

Megan Zeni's [Room to Play](#)

Dr. Hilary Inwood's [Art & Environmental Education](#)

Juliet Robertson's [Creative Star Learning](#)

EcoSchools Canada for [Environmental Leadership & Eco-Action Projects](#)

Science Teachers' Association of Ontario & Ontario Teachers' Federation:
[Assessment for Outdoor Learning](#)

[Learning for a Sustainable Future for Environmental Lessons and Guides](#)

[Ten Strategies for Strengthening Outdoor Learning At Your School](#), by Jennifer Baron. Green Teacher, Fall 2020

Canadian Wildlife - [Project Wild](#) and [Below Zero](#) lesson plans lined with Ontario Curriculum

[Exploring By The Seat Of Your Pants](#) is an organization that live streams free virtual speakers and field trips with leading experts from around the world. Check out their [past live streams](#).

*WildBC's Get Outdoors! An [Educator's Guide](#) to Outdoor Classrooms in Parks, Schoolgrounds, and other Special Places for K-12

[Ecology North](#): Resource materials and lessons from Kindergarten to Secondary School in five subject areas: Waste, Water, Food, Climate Change and Energy, and Ecology and Animals.
Wolf Creek Public School [Inuit Games](#) linked with Alberta Curriculum

Science and Sustainability Activities - Road salt reduction pilot study - [How Ryerson made their campus less salty and more sustainable this winter](#) (WWF)

[Kids Against Road Salt](#) - organization started by Grade 7 & 8 students at Star Academy in Mississauga to raise awareness about the detrimental effects of road salt on local watersheds.
[How Road Salt Harms the Environment](#)

[Hand warmer recipe](#) - DIY eco-friendly alternative to disposable chemical hand warmers

[35 Types of Snow](#) Huffington Post: Snowflakes Come In 35 Different Shapes

Indigenous History & Culture Resources:

Canadian Geographic: [Indigenous Peoples Atlas of Canada.](#)

[Etuaptmumk: Two-Eyed Seeing](#) Ted Talk by Rebecca Thomas (TEDxNCCWaterfront)

Dr. Jo-ann Archibald Indigenous StoryWORK [website](#) (2009)

[1491](#): The Untold Story of the Americas before Columbus is based on the book “1491: New Revelations of the Americas Before Columbus” by Charles C. Mann (Knopf, 2005) ATPN

[What Does the Earth Ask of Us?](#) Webinar Recording by Robin Wall Kimmerer

[Bryology \(MOSS\) with Dr. Robin Wall Kimmerer \(podcast\)](#) - Listen as world renowned author, botanist, and professor [Dr. Robin Wall Kimmerer](#) talks about her passion for moss. Kimmerer, the author of [Gathering Moss](#) and [Braiding Sweetgrass](#), discusses Indigenous uses for moss, philosophies of science and ecology, and the overlooked mysteries and dramas of the world of bryology.

[The Giving Tree, Leah Dorion](#) - Métis core values and beliefs including strength, kindness, courage, tolerance, honesty, respect, love, sharing, caring, balance, patience, and most of all, the important connection with the Creator and Mother Earth.

[Christi Belcourt - Uprising](#) - Indigenous artist Christi Belcourt has an exhibit called “Uprising: the Power of Mother Earth” at McMichael Gallery (Kleinburg, ON) until January 24th, 2021

Book: [How to Build an Iglu and Qamutiik](#) (by Solomon Awa)

[Snow Snake](#) in Syracuse, and [How to make a snow skate](#)

Resources Lisa talked about:

For any of the lessons/ integrated units that you may be interested in that Lisa spoke about, if you would like more details please email her directly at lisa.tetlichi@gmail.com

Integrated units: Moose, muskrat trapping & rabbit snaring, Ice Fishing and outdoor camp/survival skills. (these I have done for grades 1- 9)

STEAM- (art with math gr 6-9) with Beaded Earrings with Linear functions as well as looking at the cartesian plane in lower grades I have also integrated. The basics of what we did was they had to explain the linear relations in their beaded earring and then we had elders/ community members come in and lead us in the beading of our own designed earrings.

Grade 10 Experiential Science (Alberta Curriculum) - I have also done integrated units about weather patterns and about permafrost and how it is melting for this course.

Holistic Recipes:

[Cedar Tea Recipe](#) harvested from cedar trees with maple syrup by Sean Sherman, The Sioux Chef.

[Spruce Gum Tea](#) by Yellowknives Dene First Nation

[Birch Water](#) recipe

[Snow Ice Cream Recipe](#)

Learning Bird Resources:

[Patterns and Indigenous Art](#): Grade 7, Mathematics (Ontario Curriculum) A resource kit introduces you to linear growing patterns using tables of values, graphs, and algebraic expressions. You will review and apply this knowledge through examples involving Indigenous art.

Learning Bird Resource: [Successful Outdoor Learning](#)

Games and Activities:

[Arctic Survival Skills: Traditional Inuit Games](#)

[Yukon Schools Experiential Games and Activities](#)

Citizen Science Programs:

[iNaturalist](#) - An app for you to record observations of plant and animals around you

[NASA Cloud Observer Program](#) - Submit photos of your observations of the clouds

[2020 Audubon Christmas Bird Count](#) - December 14th to January 5th, 2021

[Foldscopes](#) - Ultra-affordable paper microscope. It was designed to be portable and durable, while performing on par with conventional research microscopes (140X magnification and 2 micron resolution).

[Penguin Watch](#) - Count penguins in remote regions to help us understand their lives and environment.

CIRA Ontario's [Fair and Square](#) - Collection of Games and Activities that can be played in two-meter by two-meter squares (COVID pandemic friendly games)

Current News Coverage in Outdoor Education

Dettweiler, U., Lauterbach, G., Becker, C., & Simon, P. (2017, December 08). A Bayesian Mixed-Methods Analysis of Basic Psychological Needs Satisfaction through Outdoor Learning and Its Influence on Motivational Behavior in Science Class. Retrieved November 25, 2020, from <https://www.frontiersin.org/articles/10.3389/fpsyg.2017.02235/full>

Marchant, E., Todd, C., Cooksey, R., Dredge, S., Jones, H., Reynolds, D., . . . Brophy, S. (2018). Curriculum-based outdoor learning for children aged 9-11: A qualitative analysis of pupils' and teachers' views. Retrieved December 03, 2020, from <https://journals.plos.org/plosone/article?id=10.1371%2Fjournal.pone.0212242>

Outdoor Education Research Summary

[“The future of school may be outdoors, even after the pandemic”](#) (CBC News, 2020)

[“Toronto schools look to expand outdoor learning”](#) (CTV News, 2020)