



## Teaching and Learning Week 2021 - Climate Pedagogy Toolkit For Faculty

*This document is a collection of resources originally put together by the [Lake Superior Living Labs Network](#) and then adapted by the [YOCA Coordinating Committee](#) and the Teaching and Learning Week (TLW) Team. These resources can be used to further your learning on climate change, or as teaching tools in the classroom.*

*You can also view [recordings](#) of all the TLW 2021 events, panels, and workshops.*

### Teaching resources

| Name   | Description (including why this could be a good resource)   | Source              | Link  |
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| An existential toolkit for climate justice educators | With feelings of climate anxiety and eco-grief on the rise, educators across disciplines need resources to help students develop the emotional resilience to stay engaged in the work of climate justice. This toolkit helps educators and students navigate the long emergency ahead without becoming overwhelmed by despair. The resources in this project have | Existential Toolkit | <a href="https://www.existentialtoolkit.com/">https://www.existentialtoolkit.com/</a> |

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|                                       | <p>been crowdsourced from an international community of scholars, educators, and climate justice leaders focused on addressing the emotional impact of climate disruption.</p>   |                                |  |
| <p>Climate Change Atlas of Canada</p> | <p><b><i>The Climate Atlas of Canada</i></b> combines climate science, mapping and storytelling to bring the global issue of climate change closer to home for Canadians. It is designed to inspire local, regional, and national action that will let us move from risk to resilience. The Atlas gives accurate historical climate data and shows projections of how climate change will affect a region across two scenarios of warming.</p>   | <p>Climate Atlas of Canada</p> | <p><a href="https://climateatlas.ca/">https://climateatlas.ca/</a></p>   |
| <p>EN-ROADS simulator</p>             | <p>The EN-ROADS Simulator is a transparent, freely-available policy simulation model that provides policymakers, educators, businesses, the media, and the public with the ability to explore, for themselves, the likely consequences of energy, economic growth, land use, and other policies and uncertainties, with the goal of improving their understanding. The simulation was developed by Climate Interactive, with Ventana Systems and MIT Sloan. It runs on an ordinary laptop or desktop. In the simulator you have the opportunity to</p> | <p>EN-ROADS simulator</p>      | <p><a href="https://www.climateinteractive.org/tools/en-roads/">https://www.climateinteractive.org/tools/en-roads/</a></p> |

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|                                   | create policy for your preferred future and see how different mitigation strategies will result in different levels of warming.  |  |   |
| Project Drawdown                  | Climate Solutions 101 is the world's first major educational effort focused solely on solutions. Rather than rehashing well-known climate challenges, Project Drawdown centers game-changing climate action based on its own rigorous scientific research and analysis. This course, presented in video units and in-depth conversations, combines Project Drawdown's trusted resources with the expertise of several inspiring voices from around the world. Climate solutions become attainable with increased access to free, science-based educational resources, elevated public discourse, and tangible examples of real-world action. Continue your climate solutions journey, today. | Climate Solutions 101  | <a href="https://drawdown.org/climate-solutions-101">https://drawdown.org/climate-solutions-101</a>                         |
| Mercator Carbon Budget Calculator | The MCC Carbon Clock shows how much CO2 can be released into the atmosphere to limit global warming to a maximum of 1.5°C and 2°C, respectively. With just a few clicks, you can compare the estimates for both  | Mercator Research Institute on Global Commons and Climate Change (MCC) | <a href="https://www.mcc-berlin.net/en/research/co2-budget.html">https://www.mcc-berlin.net/en/research/co2-budget.html</a> |

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|   | temperature targets and see how much time is left in each scenario.   |   |   |
| Climate Clock   | <p>In summer 2021, the IPCC published a report on the physical science basis of climate change, which included updated carbon budget estimates for limiting global warming to 1.5°C. In this report, IPCC researchers estimated that, beginning in 2020, humans could release an additional 400Gt of carbon into the atmosphere and still have a 67% chance of limiting warming to 1.5°C (see here, table SMP.2).</p> <p>The Climate Clock deadline shows how long we have left until this carbon budget runs out, given the amount of carbon we continue to emit globally.</p> | ClimateClock.world is powered by scientists, artists, educators, and activists across the world with support from <a href="#">Beautiful Trouble</a> and <a href="#">March For Science</a> | <a href="https://climateclock.world/?fbclid=IwAR1fVR_tFILeeiR-6GqnHxXZ0oEgxWmtqJUCL_CDm-t62PWO6ijkKEAC4Vk">https://climateclock.world/?fbclid=IwAR1fVR_tFILeeiR-6GqnHxXZ0oEgxWmtqJUCL_CDm-t62PWO6ijkKEAC4Vk</a> |
| Where You At? A Bioregional Quiz                        | How familiar are you with the place you call home? Get curious. If you don't have all the answers, take some time to find them. Knowing these things will help you become a better steward of the place where you live.   | Leonard Charles, Jim Dodge, Lynn Milliman, and Victoria Stockley  | <a href="https://dces.wisc.edu/wp-content/uploads/sites/128/2013/08/Where-You-At-Quiz.pdf">https://dces.wisc.edu/wp-content/uploads/sites/128/2013/08/Where-You-At-Quiz.pdf</a>                                 |
| NASA Global Climate Change<br>Vital Signs of the Planet | NASA's Global Climate Change website hosts an extensive collection of global warming resources for media, educators, weathercasters and public speakers. Browse by topic and by   | NASA  | <a href="https://climate.nasa.gov/">https://climate.nasa.gov/</a>   |

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|  | media type, including videos, social media shareables, infographics, quizzes and interactives.  |                   |   |
| Climate Data for a Resilient Canada          | <p>ClimateData.ca provides high-resolution climate data to help decision makers build a more resilient Canada.</p> <p>Explore this section to learn more about the science behind climate data, choose and access Canadian climate data, and download pre-made materials for your own training sessions.</p>  | ClimateData       | <a href="https://climatedata.ca/">https://climatedata.ca/</a>   |
| CO <sub>2</sub> and Greenhouse Gas Emissions | <p>How are emissions changing in each country? Is your country making progress on reducing emissions? We built 207 country profiles which allow you to explore the statistics for every country in the world.</p> <p>Each profile includes interactive visualizations, explanations of the presented metrics, and the details on the sources of the data.</p> | Our World in Data | <a href="https://ourworldindata.org/co2-and-ot-her-greenhouse-gas-emissions">https://ourworldindata.org/co2-and-ot-her-greenhouse-gas-emissions</a>   |
| Regeneration                                 | The world's largest, most complete listing and network of solutions to the climate crisis. And how to do them!  | Paul Hawken/Regen | <a href="https://regeneration.org/?fbclid=IwAR0cNYPy9UCT8noiflnUI1Hjqy70-nCbCpRtRjtBD0KS6xWRmBOnwdZzW6k">https://regeneration.org/?fbclid=IwAR0cNYPy9UCT8noiflnUI1Hjqy70-nCbCpRtRjtBD0KS6xWRmBOnwdZzW6k</a> |

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| Empowering Learners in a Warming World | Dr. Ellen Field, co-authored this climate inquiry resource for teachers in grade 7 - 12. It is a free resource with 100's of active learning strategies that educators can use for teaching about climate change. Check out the active learning strategy bank for ideas, or explore the various themes for background information or to follow an inquiry learning pathway. | Empowering Learners in a Warming World | <a href="https://www.climatelearning.ca/">https://www.climatelearning.ca/</a>       |
| Isthisshowyoufeel.com                  | This is a website dedicated to sharing letters from scientists about their feelings. Take a look around and read a few letters from scientists. Also look through the "For teachers" section to see how teachers are using the letters in their classrooms.   | Is This How You Feel? / Joe Duggan     | <a href="https://www.isthisshowyoufeel.com/">https://www.isthisshowyoufeel.com/</a> |

**Resources from [Elin Kelsey's keynote](#) (Teaching and Learning Week, October 25, 11:30-1:00 pm, 2021)**

| Name              | Description (including why this could be a good resource)   | Source             | Link  |
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| Dear Planet Earth | The <i>Dear Planet Earth</i> initiative is led by Dr. Nicole Ardoin's Social Ecology Lab at Stanford University. The Social Ecology Lab conducts interdisciplinary research relating environmental learning and behavior, with a focus on | Social Ecology Lab | <a href="https://www.dearplanetearth.org/">https://www.dearplanetearth.org/</a> |

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|  | <p>translating research into practice. Our current work seeks to more deeply explore individual and collective human response to climate change, with the end goal of generating new understandings of how emotional responses such as fear, concern, grief, and hope may translate into action.</p>   |   |  |
| <p>Beyond Doom and Gloom: An Exploration through Letters</p> | <p>Our worries about the environment are not only academic—they affect us personally. Yet there is a strange silence about the emotional impact of the ways in which we talk about the environment, which is so enmeshed with hopelessness: horrifying statistics and gut-wrenching images that threaten to seal the planet’s fate. How can we best influence and enact a shift beyond “doom and gloom”? The letters in this Perspectives volume are responses to this dilemma. Through an exploration of new environmental narratives, this volume aims to stimulate readers to emotionally reflect on how we can embrace hope and resilience in our stories about the environment.</p> | <p>The Environment &amp; Society Portal</p> | <p><a href="https://www.environmentandsociety.org/perspectives/2014/6/beyond-doom-and-gloom-exploration-through-letters">https://www.environmentandsociety.org/perspectives/2014/6/beyond-doom-and-gloom-exploration-through-letters</a></p> |
| <p>#OceanOptimism</p>  | <p>Ocean Optimism is a collaborative marine conservation movement. We focus on solutions rather than</p>   | <p>Ocean Optimism Team</p>                  | <p><a href="http://www.oceanoptimism.org/">http://www.oceanoptimism.org/</a></p>   |

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|                     | problems, and on connections rather than differences.   |  |   |
| #EarthOptimism      | The global conservation movement has reached a turning point. We have documented the fast pace of habitat loss, the growing number of endangered and extinct species, and the increasing speed of global climate change. Yet while the seriousness of these threats cannot be denied, there are a growing number of examples of improvements in the health of species and ecosystems, along with benefits to human well-being, thanks to our conservation actions. Earth Optimism celebrates a change in focus from problem to solution, from a sense of loss to one of hope, in the dialogue about conservation and sustainability. We encourage you to join #EarthOptimism on social media, take our free online workshop, or plan a sister event and celebrate what's working in conservation with us. | Earth Optimism and Smithsonian Institute | <a href="https://earthoptimism.si.edu/">https://earthoptimism.si.edu/</a>       |
| Atlas of the Future | An online resource of hope, Atlas of the Future maps innovative, future-focused, socially impactful projects and people around the world. We believe in the future, making  | Atlas of the Future                      | <a href="https://atlasofthefuture.org/ca/">https://atlasofthefuture.org/ca/</a> |



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|  | innovative projects understandable and raising the profiles of those committed to long-term thinking.  |                                 |   |
| Intersectional Environmentalist Council                        | The Intersectional Environmentalist Council brings together an exceptional group of environmental activists and sustainability advocates from diverse backgrounds. Council members have a unique opportunity to help shape the future of IE, provide peer-to-peer mentorship to individual activists and grassroots organizations and encourage accountability within the IE team and community. Together, we're committed to dismantling systems of oppression and the whitewashed narrative of environmentalism. | Intersectional Environmentalist | <a href="https://www.intersectionalenvironmentalist.com/the-council">https://www.intersectionalenvironmentalist.com/the-council</a> |
| Grist's Beacon newsletter focused on climate justice solutions | The only newsroom focused on exploring solutions at the intersection of climate and justice.   | Grist Magazine                  | <a href="https://grist.org/beacon/">https://grist.org/beacon/</a>   |
| Grist's Fix - solutions lab                                    | Fix combines <u>creative storytelling</u> with <u>network-building</u> and <u>events</u> . Our work amplifies stories of hope and progress, shines a light on bright ideas and the people behind them, and brings together a growing community of visionaries — we call them Fixers  | Grist Magazine                  | <a href="https://grist.org/fix/">https://grist.org/fix/</a>   |

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|  | — who are leading the way to a planet that works for everyone. |  |  |
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**Resources from the Panel “Insights from Interdisciplinary, Experiential, and Place-based Climate Education”, by Dr. Lindsay Galway, Dr. Margot Parkes, and Dr. Thomas Beery (Teaching and Learning Week, October 26, 11:30-12:30 pm, 2021)**

| <b>Name</b>  | <b>Description (including why this could be a good resource)</b>  | <b>Source</b>                     | <b>Link</b>   |
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| Climate Action Field School Recordings                   | <p>Two recordings of Climate Action Field School panels are available for viewing, and each recording includes a graphic illustration representing what was shared in each panel.</p> <p>The Lake Superior Climate Action Field School was developed in partnership with the Lake Superior Living Labs Network, Lakehead University, University of Minnesota Duluth, Michigan Technological Institute, Algoma University, and community partners and scholars across the lake superior watershed.</p> | Lake Superior Living Labs Network | <a href="https://livinglabs.lakeheadu.ca/news-events/climate-action-field-school-e/field-school-recordings/">https://livinglabs.lakeheadu.ca/news-events/climate-action-field-school-e/field-school-recordings/</a>   |
| Thunder Bay Climate Action Field School Virtual 360 Tour | Click through, and scroll in the 360 tour. It is not designed to be step by step or linear. Instead, it is an invitation to explore elements of the CAFS at   | Lake Superior Living Labs Network | <a href="https://kuula.co/share/collection/7k8Kw?logo=1&amp;info=0&amp;fs=1&amp;vr=1&amp;zoom=1&amp;sd=1&amp;initload=0&amp;thumbs=1">https://kuula.co/share/collection/7k8Kw?logo=1&amp;info=0&amp;fs=1&amp;vr=1&amp;zoom=1&amp;sd=1&amp;initload=0&amp;thumbs=1</a> |

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|  | <p>your own pace. In this tour are videos, 360 images, audio and drone footage of some of the key activities that took place during the Climate Action Field School in Thunder Bay, ON.</p> <p>The Field School supported a group of young people, who are poised to become regional and national climate leaders, to participate in an experiential training program of virtual workshops, community site visits, and events in coastal communities.</p> |  |  |
| <p>CoPEH-Canada Teaching Resources</p> | <p>The CoPEH-Canada has generated a series of teaching and training resources over more than a decade. These resources began with the production of CoPEH-Canada Teaching Manual (2012) which was dedicated to Bruce Hunter. Our training resources have expanded to include a range of resources including: Modules (in pdf and online format), videos, Webalogue recordings, and other resources.</p>   | <p>Community of Practice in Ecosystem Approaches to Health</p> <p>CoPEH-Canada is a community of scholars and practitioners dedicated to the understanding, teaching and application of ecosystem approaches to address current challenges to health and sustainability.</p> | <p><a href="https://copeh-canada.org/en/teaching-manual.html">https://copeh-canada.org/en/teaching-manual.html</a></p> |

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| <p>Co-PEH-Canada Course and Webinar Series</p>           | <p>Discover innovative and dynamic approaches for better understanding the multiple factors which influence health – ecosystem approaches to health – with an experienced, pan-Canadian team. During this intensive course, you will learn methods for carrying out research and interventions on issues at the confluence of health, the environment and society.</p>  | <p>Community of Practice in Ecosystem Approaches to Health</p> | <p><a href="https://copeh-canada.org/en/key-areas/training-and-capacity-building/course.html">https://copeh-canada.org/en/key-areas/training-and-capacity-building/course.html</a></p> |
| <p>Ecological Determinants Group on Education (EDGE)</p> | <p>The Ecological Determinants Group on Education (EDGE) aims to bring together public health and allied professionals, researchers and educators with interest and expertise in the ecological determinants of health (EDH) to promote the integration of EDH with public health education, training, and professional development, attending to issues of content as well as issues of pedagogy (and the alignment between these). The audiences targeted include partner agencies (e.g. <a href="#">Community of Practice in Ecosystem Approaches to Health-Canada</a> <u>Opens in a new window</u>, <a href="#">Canadian Public Health Association</a>, <a href="#">Public Health Agency of Canada</a> <u>Opens in a new window</u>, <a href="#">National Collaborating Centres for</a></p> | <p>Ecological Determinants Group on Education (EDGE)</p>       | <p><a href="https://www.cpha.ca/EDGE">https://www.cpha.ca/EDGE</a></p>   |

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|   | <p><u>Public Health</u><br/> <u>Opens in a new window</u><br/> , <u>Network of Schools and Programs of Population and Public Health</u><br/> <u>Opens in a new window</u><br/> ), Public Health professionals, practitioners and educators, policy makers and students in Canada and internationally.</p>  |  |  |
| <p>Koh-learning in our Watersheds: Transforming education by connecting students, communities and waterways</p> | <p>The “<i>Koh-Learning in our Watersheds</i>” is a UNBC-SD91 partnered project founded on the benefits of learners, educators and partners learning together about ‘Koh’ – a word for waterway in <b><u>Dakelh</u></b>. This project builds on a long-standing partnership between SD 91 and UNBC.</p> <p>This experiential (i.e., hands-on, practical), nature- and place-based program of integrative learning within watersheds is designed to support commitments to <u>First People’s Principles of Learning</u> including connectedness, reciprocal relationships, and sense of place. Learning is oriented toward broader systems change that enhances student success and life-long learning. This project focuses on education system transformation nested within community and watershed contexts.</p> | <p>University of Northern British Columbia</p> | <p><a href="https://www2.unbc.ca/integrated-watershed-research-group/koh-learning-our-watersheds-transforming-education-connecting-students-communities-and-waterways">https://www2.unbc.ca/integrated-watershed-research-group/koh-learning-our-watersheds-transforming-education-connecting-students-communities-and-waterways</a></p> |

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|                     | As a systems-change initiative, <i>Koh-Learning</i> fuels Indigenous & non-Indigenous youth to become informed and connected stewards and change agents for the well-being of their environments and communities, who are then empowered to influence decisions and processes affecting their futures                  |  |   |
| Exchange of Stories | In Integrative Science, we are exploring "story as relationship" within research projects. Some of our major interests in this regard are to help humans reconnect with the natural world and to help Aboriginal Elders revitalize language while also connecting with children and young people in their communities. | Institute for Integrative Science and Health | <a href="http://integrativescience.ca/Principles/ExchangeOfStories/">http://integrativescience.ca/Principles/ExchangeOfStories/</a> |

### Learning resources to watch (e.g. videos)

| Name   | Description (including why this could be a good resource)                          | Source                          | Link  |
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| 10 Years to Transform the Future of the Planet | This is a 7-minute TED talk with climate and resilience scientist Johan Rockstrom. | TED countdown (Johan Rockstrom) | <a href="https://www.ted.com/talks/johan_rockstrom_10_years_to_transform_the_future_of_humanity_or_destabilize_the_planet#t-448">https://www.ted.com/talks/johan_rockstrom_10_years_to_transform_the_future_of_humanity_or_destabilize_the_planet#t-448</a> |

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|   |  |                                   | <a href="#">199</a>   |
| The Thunder Bay Energy Plan             | A 7-minute LSLLN Sustainability Stories video about the new Thunder Bay Energy Plan.   | Lake Superior Living Labs Network | <a href="https://youtu.be/VRyL5ipYVWQ">https://youtu.be/VRyL5ipYVWQ</a>                               |
| Shoulders                               | A 7-minute video of spoken word by Shane Koyczan - hard-hitting, grounded in Greek myth (Eurocentric) but nonetheless can be an inspiring call to action   | Shane Koyczan                     | <a href="https://www.youtube.com/watch?v=An4a-_NjilY">https://www.youtube.com/watch?v=An4a-_NjilY</a> |
| Stand Up                                | A 2016 5-minute music video of all Indigenous musicians encouraging folks to “stand up”. This is US-focused, given it was made as Standing Rock resistance to the Dakota Access Pipeline.              | Taboo                             | <a href="https://www.youtube.com/watch?v=Onyk7guvHK8">https://www.youtube.com/watch?v=Onyk7guvHK8</a> |
| Flight of the Hummingbird - Haida Manga | 2-minute animated video that ends with “I’m doing what I can”  | Michael Nicholl Yahgulanaas       | <a href="https://www.youtube.com/watch?v=naj6zZakgEg">https://www.youtube.com/watch?v=naj6zZakgEg</a> |
| Dear Future Generations: Sorry          | 6-minute video. Self-Description: An Apology Letter to Future Generations. Sorry.  | Prince Ea                         | <a href="https://www.youtube.com/watch?v=eRLJscAlk1M">https://www.youtube.com/watch?v=eRLJscAlk1M</a> |
| An Oriki for Our Time                   | Bayo Akomolafe is a researcher, lecturer and author, as well as Coordinator of the International Alliance for Localization. This is his plenary talk at the Economics of Happiness conference, held in | Local Futures; Bayo Akomolafe     | <a href="https://www.youtube.com/watch?v=e9hvW9cYQKM">https://www.youtube.com/watch?v=e9hvW9cYQKM</a> |

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|  | Portland, Oregon, in February 2015.   |              |   |
| 10 New Insights in Climate Science 2021 - Overview video | Each year, Future Earth consults researchers and carries out a horizon scan in fields related to climate change on what the latest findings and most important new emerging fields are. We summarize this in 10 important scientific insights, and the result has always been a rich and valuable scientific synthesis for policy and society at large, a testament to the ever-expanding and improving knowledge of our planetary climate systems and the interactions with the human world. | Future Earth | <a href="https://www.youtube.com/watch?v=WglQ_UR3QKA">https://www.youtube.com/watch?v=WglQ_UR3QKA</a> |

### Learning resources to listen to (e.g. podcasts)

| Name   | Description (including why this could be a good resource)   | Source                   | Link  |
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| Stories from Home: Living a Just Transition Episode 1 - What is Just Transition? | A 35-minute podcast profiling a Just Transition story snapshots. Focused on the following question: What do climate change solutions look like when they come from frontline communities at the intersections of art, culture, and social justice?<br>Strong climate justice and art focus. | Climate Justice Alliance | <a href="https://soundcloud.com/user-341730469/stories-from-home-living-the-just-transition-podcast-episode-1-what-is-just-transition">https://soundcloud.com/user-341730469/stories-from-home-living-the-just-transition-podcast-episode-1-what-is-just-transition</a> |



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| <p>How to Save a Planet: Is Your Carbon Footprint BS?</p>                                      | <p>This 44-minute podcast is a debate on this topic: Do your individual actions matter when it comes to climate change? Or is it all about big, systemic change? In this episode, we break down both sides of the argument. We lay out the actions that have the biggest impact on your carbon footprint – and then ask if there's a better way to think about our individual roles.</p> | <p>How to Save a Planet</p>              | <p><a href="https://open.spotify.com/episode/5L1RVInqBXtZgEzWTHOaTg?si=6ETUVZyOSqG1UMBmMX4yIA&amp;nd=1">https://open.spotify.com/episode/5L1RVInqBXtZgEzWTHOaTg?si=6ETUVZyOSqG1UMBmMX4yIA&amp;nd=1</a></p>   |
| <p>The Future of Lake Superior with Climate Disruption</p>                                     | <p>A 4-minute radio piece (or read the article) from Michigan with a tribal biologist and other experts about Lake Superior and climate change.</p>  | <p>Michigan Radio</p>                    | <p><a href="https://www.michiganradio.org/post/future-lake-superior-climate-disruption">https://www.michiganradio.org/post/future-lake-superior-climate-disruption</a></p> <p>Link to the radio piece is within this text article.</p>   |
| <p>How Do You Cancel a Pipeline</p>  | <p>In this 34-minute episode, two Indigenous activists who have been campaigning against the extraction industry for years from the frontlines to the United Nations share their wisdom and experience.</p>  | <p>Indigenous Climate Action Podcast</p> | <p><a href="https://open.spotify.com/episode/4wHQaX0xvOu3gm3ZOqZCly">https://open.spotify.com/episode/4wHQaX0xvOu3gm3ZOqZCly</a></p>   |
| <p>The Unborn Future: How Western Philosophy Helped Propel Us Toward a Climate Catastrophe</p> | <p>A 55-minute podcast is Todd Dufresne's second lecture that explores how Western thought feeds an ideology of infinite economic growth.</p>  | <p>CBC Ideas</p>                         | <p><a href="https://www.cbc.ca/radio/ideas/the-unborn-future-how-western-philosophy-helped-propel-us-toward-a-climate-catastrophe-1.6069290">https://www.cbc.ca/radio/ideas/the-unborn-future-how-western-philosophy-helped-propel-us-toward-a-climate-catastrophe-1.6069290</a></p> |

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| How to Talk About the End of the World                 | A 30-minute podcast interviewing Alex Steffen, The Snap Forward, who discusses how we frame climate change as now and ongoing, and not the end of the world.   | The Big Story           | <a href="https://thebigstorypodcast.ca/2021/08/03/how-to-talk-about-the-end-of-the-world/">https://thebigstorypodcast.ca/2021/08/03/how-to-talk-about-the-end-of-the-world/</a> |
| Seeds, Grief and Memory with Rowen White               | A 50-minute interview of farmer, seedkeeper, and indigenous seed and food sovereignty activist Rowen White. She discusses how seeds operate as gateways to our lineage and how our current disconnection manifests as grief.                         | Finding Our Way Podcast | <a href="https://www.findingourwaypodcast.com/individual-episodes/s2e6">https://www.findingourwaypodcast.com/individual-episodes/s2e6</a>                                       |
| Penser une écologie décoloniale, une écologie-du-monde | 1h 10min; Dans cet épisode on rencontre Malcom Ferdinand, philosophe et auteur d'un essai qui vient de paraître au Seuil, intitulé « Une écologie décoloniale, Penser l'écologie depuis le monde caribéen ».   | Génération Afrotopia    | <a href="https://www.youtube.com/watch?v=gnb6A4F3QN0">https://www.youtube.com/watch?v=gnb6A4F3QN0</a>   |
| Outrage + Optimism                                     | Podcast hosted by Christina Figueres, Tom Rivett-Carnac and Paul Dickinson. They interview many leaders in the climate sphere (policymakers, NGOs, scientists, authors, artists, and businesses). The podcast also responds to climate developments. | Global Optimism         | <a href="http://www.globaloptimism.com/">http://www.globaloptimism.com/</a>   |

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| Facing IT                 | <p>The age of climate crisis is upon us, and grief and anxiety are on the rise. This podcast explores the emotional burden of climate change, and why despair leaves so many people unable to respond to our existential threat. Overcoming that paralysis is the first step in moving to action, and yet official climate strategies rarely address the emotional toll of climate grief and eco anxiety. Meanwhile, frontline communities — particularly people of color, indigenous communities, and other historically-marginalized groups — are experiencing the heaviest mental health impacts of climate disruption and displacement. This series introduces ways to move from despair to action by addressing the psychological roots of our unprecedented ecological loss.</p> | Jennifer Atkinson | <a href="https://www.drjenniferatkinson.com/facing-it">https://www.drjenniferatkinson.com/facing-it</a> |
| CBC What on Earth podcast | <p>There are a lot of questions, ideas and emotions about climate change. Whether you feel scared, excluded, curious or overwhelmed, <i>What On Earth</i> hears you. Host Laura Lynch understands we're at a pivotal time for shaping our future. Tune in as she explores your experiences, grapples with the challenges and examines the potential solutions.</p>   | CBC Radio Canada  | <a href="https://www.cbc.ca/radio/whatonearth">https://www.cbc.ca/radio/whatonearth</a>                 |

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| <p>Teaching in a Climate Crisis - Voice Ed Radio</p> | <p>How can teachers best address the climate crisis? Why is this important, what do we need to know, and how should we 'be'? Also, who's leading the way here in Canada, and what can we learn from looking abroad? Two new teachers from OISE's Master of Teaching program, recent grad Yana Lee and second-year student Jackson Fowlow, have conversations with key players and minds to answer these questions. Strap in for some insightful, interesting, and hopefully inspiring discussions.</p> | <p>VoiceEd Radio</p>         | <p><a href="https://voiced.ca/project/teaching-in-a-climate-crisis/">https://voiced.ca/project/teaching-in-a-climate-crisis/</a></p> <p>Elin Kelsey &amp; Ellen Field:<br/><a href="https://voiced.ca/podcast_episode_post/ep-7-leading-research-and-hope/">https://voiced.ca/podcast_episode_post/ep-7-leading-research-and-hope/</a></p> |
| <p>How to Survive the End of the World</p>           | <p>Podcast by adrienne maree brown and Autumn Brown. "Learning from the apocalypse with grace, rigour, and curiosity"</p>  | <p>End of the World Show</p> | <p><a href="https://www.endoftheworldshow.org/">https://www.endoftheworldshow.org/</a></p>   |
| <p>Race Against Climate Change</p>                   | <p>Canada's National Observer is already the country's most trusted voice in climate journalism. Now, it has a new podcast: Race Against Climate Change. With just nine years until 2030, we need to move fast to avert climate catastrophe. So what are we going to do about it? Race Against Climate Change brings you the stories and solutions you won't hear anywhere else.</p>   | <p>National Observer</p>     | <p><a href="https://www.nationalobserver.com/podcast/race-against-climate-change">https://www.nationalobserver.com/podcast/race-against-climate-change</a></p>   |

## Learning resources to read (e.g. articles, poems)

| Name   | Description (including why this could be a good resource)  | Source                  | Link  |
|--|--|-------------------------|---|
| Greed Does Not Have to Define Our Relationship to Land               | Article by Potawatomi author and scientist Robin Wall Kimmerer about our Relationship to Land and choosing “to belong to a place”.   | Literary Hub            | <a href="https://lithub.com/robin-wall-kimmerer-greed-does-not-have-to-define-our-relationship-to-land/">https://lithub.com/robin-wall-kimmerer-greed-does-not-have-to-define-our-relationship-to-land/</a> |
| THUNDER: Making Noise in the Age of Climate Denial                   | A zine from Thunder Bay Fridays for Future group. Includes a collection of climate pieces from local youth.  | Fridays for Future Zine | <a href="https://drive.google.com/file/d/1Z_dM9ynM4RJgo1iXv0C0aeS2TgBCyk_L/view">https://drive.google.com/file/d/1Z_dM9ynM4RJgo1iXv0C0aeS2TgBCyk_L/view</a>   |
| A Little Humour May Help With Climate Change Gloom                   | A short article by Lakshmi Magon explores how to engage others in climate action via humour.   | The Conversation        | <a href="https://theconversation.com/a-little-humour-may-help-with-climate-change-gloom-125860">https://theconversation.com/a-little-humour-may-help-with-climate-change-gloom-125860</a>                   |
| The Line 3 pipeline protests are about much more than climate change | An article from the Grist documenting the Line 3 protests and movement, relating to wild rice, oil, and treaty rights.   | The Grist               | <a href="https://grist.org/food/line-3-pipeline-protests-enbridge-wild-rice-treaty-rights/">https://grist.org/food/line-3-pipeline-protests-enbridge-wild-rice-treaty-rights/</a>                           |
| When Young People Worry About Climate Change                         | An article about affective dimensions of climate change, in young people in particular that also speaks to the cultural, discursive, and structural factors influencing how young people | Tufts University        | <a href="https://sites.tufts.edu/earthstewards/2020/08/11/when-young-people-worry-about-climate-change/">https://sites.tufts.edu/earthstewards/2020/08/11/when-young-people-worry-about-climate-change/</a> |

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|  | cope with their negative emotions around climate change.   |                            |   |
| Canada could be a climate leader but we aren't                           | A short webpage articulating failure in Canada's leadership on climate action while still hopeful and solution oriented (with additional content to read)  | Environmental Defence Fund | <a href="https://environmentaldefence.ca/canada-climate-action/">https://environmentaldefence.ca/canada-climate-action/</a>                                 |
| Our climate change turning point is right here, right now                | A short article about the 2021 summer's heat, water shortages, and how the media and politicians choose turning points, and we've been choosing so far to ignore many other potential turning points in the climate change fight.  | The Guardian               | <a href="https://news.yahoo.com/climate-change-turning-point-now-123104609.html">https://news.yahoo.com/climate-change-turning-point-now-123104609.html</a> |
| 'I can feel your breath': when COVID-19 and environmental racism collide | An article exploring: From toxic waste to tailings ponds, Canada's environmental hazards are often imposed on Indigenous and Black communities. Industrial projects have made COVID-19 the latest pollutant — in places where people and the land are already under stress | The Narwhal                | <a href="https://thenarwhal.ca/covid-19-environmental-racism-canada/">https://thenarwhal.ca/covid-19-environmental-racism-canada/</a>                       |
| Local Climate Change Fact Sheets   | A range of fact sheets designed to help you take action in Thunder Bay.  | Climate Change Tbay        | <a href="https://climatechangetbay.com/factsheets/">https://climatechangetbay.com/factsheets/</a>   |

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|---|---|---------------------------|---|
| Report: Essential Background for Climate Change Education | This report seeks to answer the question “What are the best practices for Manitoba teachers to teach climate change?”   | Climate Change Connection | <a href="https://climatechangeconnection.org/wp-content/uploads/2020/05/Report-Essential-Background-for-Climate-Change-Education-FINAL.pdf">https://climatechangeconnection.org/wp-content/uploads/2020/05/Report-Essential-Background-for-Climate-Change-Education-FINAL.pdf</a> |
| David Orr Reading   | This is an incredible resource that challenges us to think about what we’re educating for. Written in the early ‘90s, it’s even more relevant for university instructors today. | Context Institute         | Orr, D. (1991). What is education for? <i>In Context: A Quarterly of Humane Sustainable Culture</i> .<br><br><a href="https://www.context.org/clib/ic27/orr/">https://www.context.org/clib/ic27/orr/</a>  |

### Professional Learning Communities focused on Climate Change Education

[Climate Change Education Canada](#) is a professional learning community on Facebook founded by Ellen Field, Julia Ostertag, and Michele Martin. There are close to 1000 educators in the network and it’s a busy community which shares news and teaching resources.

Critical Action Learning Exchange (OISE) supports educators from around the world in **designing and exchanging curriculum** that promotes collaboration and inquiry to address the scientific and social complexity of these problems, and critically disrupt passivity and alienation. They are currently focused on climate change education:

<https://cale.oise.utoronto.ca/>

