



CLIMATE CHANGE RESOURCES FOR TEACHERS



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Every individual is different, and emotional responses are influenced by the beliefs, worldviews, and existing emotions each individual brings to the table. Classroom cultures of trust must be created where the range of students' perspectives and questions students have on climate change can be expressed and explored through group knowledge building and critical reflection. There are many ways to approach climate change; there is room for fear and hope, wonder and suspense, sadness and curiosity, and all the rest of human emotion.

Changing Worldviews

Addressing climate change requires us to question many of society's norms. This includes: how we define progress and the role of science and technology; capitalism, material growth and consumerism; exploitation of nature; and the dominance of individualistic values, such as freedom, independence, success, performance, social recognition, and comfort. An effective understanding of climate change will be transdisciplinary, apply systems perspectives, span from local to global considerations, and cultivate respectful ways of approaching contested positions—all approaches that are transferable to supporting students' development in other areas!

Conventional Schoolings vs Transformative Learning

Conventional teaching, based on information transfer and finding the “right” answers, does not align well with the complexity of climate change education. With the internet at their fingertips, students have access to more information than they could ever process. And society has not yet found the right answers when it comes to climate change. Our students need more.

Education reforms now promote strategies such as Transformative Learning, Education for Sustainable Development, 21st Century Global Competencies, and others that are better suited to tackling complex problems like climate change. These strategies often begin with the understanding and experiences that students bring with them. Educators, who themselves are grappling with climate change issues, take the role of facilitator and guide learners with their questions. School learning is brought into contact with the real world, allowing learners to cultivate creativity and innovation as they bump into real-life complexities. Students develop the attitudes and skill sets necessary to address challenges to which we don't yet have the right answers, the same skills they need to be successful individuals, citizens and entrepreneurs.

Climate Change Websites and Links for Educators

This selection of resources has been compiled based on a position of acceptance of climate change as a human-caused phenomenon that is currently negatively affecting the earth and its systems.

Understanding the Science of Climate Change	
What is Climate? Our scientists explain it all to an eleven-year old	https://www.iisd.org/ela/blog/commentary/climate-scientists-explain-eleven-year-old/
Vital Signs of the Planet	https://climate.nasa.gov/
Nine Pictures That Show How Climate Change Is Impacting Earth	https://futurism.com/nine-pictures-show-climate-change-impacting-earth/
NASA Images of Change	https://climate.nasa.gov/images-of-change?id=623#623-arctic-sea-ice-coverage-hits-record-low
The Guardian UK: The ultimate climate change FAQ	https://www.theguardian.com/environment/series/the-ultimate-climate-change-faq

Climate Change: Deeper Understanding and Possible and Ways Forward	
Resilience.org aims to support building community resilience in a world of multiple emerging challenges: the decline of cheap energy, the depletion of critical resources like water, complex environmental crises like climate change and biodiversity loss, and the social and economic issues which are linked to these. We like to think of the site as a community library with space to read and think, but also as a vibrant café in which to meet people, discuss ideas and projects, and pick up and share tips on how to build the resilience of your community, your household, or yourself.	http://www.resilience.org/
Union of Concerned Scientists was founded in 1969 by scientists and students at the Massachusetts Institute of Technology. By mobilizing scientists and combining their voices with those of advocates, educators, business people, and other concerned citizens, UCS has built a reputation for fairness and accuracy and amassed an impressive history of accomplishments.	https://www.ucsusa.org/global-warming/#.WpsFRHxG0dU

Non-Mainstream Canadian Media that Present Alternative Perspectives on Climate Change	
DeSmog Canada 's mission is to make complex energy and environment news accessible to Canadians and to shine a light on critical, under-reported stories.	https://www.desmogblog.com/
The Tyee is an independent news outlet that aims to “revive old-style, long-form reporting and shed light on the stories and solutions big media ignores.”	https://thetyee.ca/
National Observer is an independent journalism website with a strong emphasis on ethics and accountability.	https://www.nationalobserver.com/

Climate Change Deniers – Be Aware!	
Friends of Science is a Calgary-based organization that believes the sun is the main cause of climate change, not human activity.	https://friendsofscience.org/
Blog post: “Who needs old-time climate-change deniers when we've got the 'New Climate Denialism'?”	http://rabble.ca/blogs/bloggers/alberta-diary/2017/05/who-needs-old-time-climate-change-deniers-when-weve-got-new

Climate Change Classroom Learning Resources

Learning for a Sustainable Future (LSF) has identified and reviewed a wide range of climate change classroom resources, children's literature books and videos which are available on LSF's Resources for Rethinking (www.R4R.ca) database.

[Resources for Rethinking](http://www.R4R.ca) is a free online database which provides access to over a thousand excellent, peer-reviewed, curriculum-matched resources for educators from hundreds of publishers. These resources include lesson plans, activities, children's literature, and videos. Educators can search by language, jurisdiction, grade, subject, curriculum unit, and sustainability theme in order to get the perfect resource. About 6,600 teachers per month visit the R4R.ca website to access resources.



Climate Change Learning in Grades K-6

Climate change resources on R4R focus primarily on Grade 7-12. Although we believe climate change is an important issue to be taught at all ages, students younger than grade 7 may not have the developmental readiness to confront the full complexity of the problem. Our climate change resources for grades K-6 focus on the "building blocks" of climate literacy, helping teachers to introduce students to foundational concepts including weather, seasons, energy, habitats and responsible citizenship. These resources are intended to foster a strong, positive connection with the natural world and serve as a sound basis for increasing students' understanding of issues related to climate change. To find K-6 climate change resources on R4R, use the "Theme" search; "Climate Change" is a searchable theme under "Air, Atmosphere & Climate." You can then refine your search to explore specific grades or subjects.

Learning for a Sustainable Future (LSF) is a Canadian charitable organization whose mission is to promote, through education, the knowledge, skills, values, perspectives, and practices essential to a sustainable future. LSF has been working with the federal and provincial governments, universities, business, educators and youth across Canada to support Climate Change and Sustainable Development Education since 1991. LSF's innovative programs and strategic partnerships are reshaping education policy and transforming learning methods, helping students learn to address the increasingly difficult economic, social, and environmental challenges of the 21st century.

For further information on our programs, please contact us at:

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Climate Change Compendium October 2025

Elementary/Middle Level
Middle Level/Secondary

A. Lesson / Unit Plans

Resource Title	Synopsis	Curriculum Connections	
		Grade Level	Subject Area
Empowering the Youngest Learners in a Warming World Grades K-2	This resource is a comprehensive guide to climate change education with five different chapters. Each chapter consists of 3-4 guided inquiries to help bring climate change learning to your youngest learners. This guide provides educators with a blend of quality content (resources, videos, books, websites and ideas) and exemplary pedagogy to guide students through an inquiry-driven approach to climate change learning.	Elementary	Science Social Studies Math Physical Education and Health
Empowering Young Learners in a Warming World Grades 3-6	This Climate Change Inquiry resource is a comprehensive guide to climate change education with five different chapters. Each chapter consists of 3-4 guided inquiries to help bring climate change learning to your young learners. This guide provides educators with a blend of quality content (resources, videos, books, websites and ideas) and exemplary pedagogy to guide students through an inquiry-driven approach to climate change learning.	Elementary	Science Social Studies Math Physical Education and Health
Healthy Habitats: Climate Change Action for K-2	This resource guides students in understanding what defines a healthy habitat, the potential consequences of climate change on these vital systems and how they can become active, engaged environmental citizens. Three inquiry-based lessons work together to create a cohesive learning experience	Elementary	Science Social Studie
Climate Change and Anxiety	This learning unit has been developed to help students deal with feelings of climate anxiety and powerlessness by providing them with the tools to understand, discuss and take action to protect our planet. A series of six lessons involves students in analyzing the causes and consequences of climate change, while identifying and implementing sustainability action goals	Elementary Middle	Science
What in the World Is Happening to Our Climate	Follow up activities to the children's book of the same title. Book introduces young readers to the basics of CC. Students collect data & graph data, build models to demonstrate impacts of sea level rise, calculate their greenhouse gas contributions & develop strategies to reduce emissions.	Elementary	Math & Science
Climate Justice and Action Through Art	Students explore their local environment in a creative manner to create an art piece that leads to a discussion of protecting the environment and through a second project to develop an appreciation of indigenous culture by learning about petroglyphs. Through art students learn more regarding the current problems with pollution, and climate change by making connections to the unnatural materials in our land, and waters.	Upper Elementary Middle	Science Social Studies Art
How Will We Fix Climate Change	This teaching guide accompanies an episode from the podcast series "Tai Asks Why", in which 7 th -grader, Tai Poole interviews scientists and friends to learn about the dangers of climate change and steps individuals can take to make a difference. <i>Subject content:</i> climate change, greenhouse gases, global warming, citizenship, government responsibilities	Upper Elementary Middle	Science, Geography, Social Studies

Resource Title	Synopsis	Curriculum Connections	
		Grade Level	Subject Area
Polar Bears & the Arctic	Cross curricular look at the polar bear's arctic habitat & effect of CC. Includes an action component	Upper Elementary	Science, Social Studies & Language Arts
Our Changing Climate	Comprehensive, multi-lesson unit. Balance of content & process. What it is. Causes & impacts, What to do	Upper Elementary	Science & Language Arts
Earth: It's Everybody's Home	Students learn which human activities contribute to climate change, how climate change impacts their local community and what young people are doing about it. <i>Subject content:</i> climate change, Global Goals, using google earth, activism.	Upper Elementary Middle	Science
Designing for Climate Action	A project-based resource best employed following a study of climate change. Students explore the nature of the circular economy and how it can address climate change. <i>Subject content:</i> sustainable consumption, design processes, circular economy, climate change	Upper Elementary Middle	Science & Technology
Climate Change in the Garden: One Seed at a Time	Students explore the effect of rising temperatures on food production through a number of hands-on activities. <i>Subject content:</i> climate change, ecosystems, plant growth, pollination cycles	Upper Elementary Middle Level	Science & Social Studies
A Warmer World For Arctic Animals	Examines the impact of climate change on four arctic species and the resulting ripple effects that flow through the ecosystem. <i>Subject content:</i> climate impacts, populations, ecosystem concept/dynamics	Upper Elementary Middle	Science & Social Studies
Investigating Sea Level Using Real Data	Through the lessons in this module, students are guided through the use of NOAA data (sea level and tide data from NOAA's Center for Operational Oceanographic Products and Services) to understand how scientists monitor sea levels in order to determine the effect of sea level changes on coastal communities.	Middle	Science and Math
Next Generation Climate (6-8)	Provides videos, graphs, activities, games to explore evidence, causes, and impacts of CC. Includes action ideas	Middle	Science & Social Studies
Stories of Climate Change	Students learn about how climate change has impacted some of the world's poorest people and who is responsible. <i>Subject content:</i> climate change, climate justice, climate resilience & adaptation	Middle	Social Studies & Geography
Climate Emotions in K-12 Education	This guide is a resource for Canadian educators that provides strategies to support students' mental health and resilience while exploring the connections between climate change, mental health, and education. It equips teachers with background knowledge about the psychological and emotional impacts of climate change on students, including research on climate anxiety, as well as the challenges teachers face when integrating climate education into their classrooms.	Elementary/Middle Secondary	Social Studies English Language Arts Health Education Arts
Empowering Learners in a Warming World	A cross-curricular, nine-chapter inquiry resource to support climate change education in grades 7-12 across Canada. A blend of quality content and exemplary pedagogy to guide students through an inquiry-driven approach to climate change learning. <i>Subject content:</i> climate change, environmental impacts, human health, economy, Indigenous perspective, taking action	Middle Secondary	Science Environmental Science Math Geography
Climate Change and the Great Lakes	This lesson examines how climate change is impacting the Great Lakes. Using information provided in two feature newspaper articles, students learn how surrounding communities depend on these lakes and the specific threats that climate change presents to their livelihoods	Middle Secondary	Science Environmental Science Geography

Resource Title	Synopsis	Curriculum Connections	
		Grade Level	Subject Area
Building Awareness of Climate Sensitive infectious diseases in Canada	The lessons in the following toolkit are designed to guide students towards an early understanding of climate change, and the impact it is having on all living things. One of the consequences of these changes is the increasing presence of climate sensitive infectious diseases within Canadian communities. <i>Subject content:</i> climate sensitive infectious diseases, Lyme disease, West Nile virus, hantavirus, E. coli, giardiasis and salmonellosis.	Middle	Science Math Health
Spark Climate Conversations: Climate Justice in the Canadian Arctic	Through guided conversations, learners will identify ways that climate change is disproportionately affecting the livelihood of the Inuit in the Arctic. Through inquiry, learners will examine how climate change disproportionately affects Indigenous Peoples and identify ways of taking action to address how climate change disproportionately affects Indigenous People. <i>Subject content:</i> climate change, Indigenous Knowledge, Environmental Justice, ecosystems	Middle Secondary	Science Environmental Science Geography Social Studies
The Human Impact of Climate Change	These activities explore the human impact of the climate emergency and provide new spaces, approaches and opportunities for climate education and social action The resource frames the climate emergency as a human rights and people-centered issue and supports teachers to promote a sense of agency and empowerment within young people. This in turn is recognized as one strategy to help young people manage eco-anxiety, as well as disillusionment and disengagement with climate issues. <i>Subject content:</i> Climate Change, Human Rights, Equality, Climate Justice	Middle Secondary	Social Studies Geography
The Climate in Our Hands: Oceans & Cryosphere	Students explore the importance of the ocean and cryosphere as well as the damage being done by anthropogenic climate change. Emphasis is placed on student action. <i>Subject content:</i> cryosphere, marine ecology, climate change impacts	Middle Secondary	Science
Canada in a Changing Climate: The Living World	Students learn about the impact of climate change on food production in Canada. Through a variety of activities students take a critical look at the various threats that contribute to climate change and find solutions to the problems. <i>Subject content:</i> climate change cause & effect, mitigation & adaptation	Middle Secondary	Science
Canada in a Changing Climate: Society and Economy	Students explore causes & consequences of climate change including how to reduce risk and take advantage of opportunities. <i>Subject content:</i> climate change, mitigation, adaption, sustainable development, data analysis & management.	Middle Secondary	Science & Math
Corals and Chemistry	Students explore the impacts of climate change on the oceans with particular attention to coral reefs. <i>Subject content:</i> carbon cycle, fossil fuels, ecosystems	Middle Secondary	Science
Youth for the Planet	A climate action resource kit to educate students on climate change and inspire them to take meaningful actions at home, school and in the community. <i>Subject content:</i> climate change, weather, human impacts, climate action	Middle Secondary	Science
Displacement in the Face of Climate Change	Ten lessons focused on climate-caused migration around the world. Students analyze how climate change affects migration and the policies that could be effective in addressing the issue. <i>Subject content:</i> climate change, migration patterns, environmental factors	Middle Secondary	Social Studies
Choosing Earth's Climate Future	Students examine examples of three interconnected responses of humans to the changing climate- suffering, adaptation and mitigation- and based on their findings and analysis, describe	Secondary	Science Environmental Science Geography

Resource Title	Synopsis	Curriculum Connections	
		Grade Level	Subject Area
	how climate change is impacting the earth's systems now as well as in the future.		
Climate Action! How can we mitigate human impacts on the atmosphere?	With this comprehensive guide students will explore human connections to the atmosphere and how human-caused changes to the atmosphere impact themselves and their communities. They take on the role of action researchers with the task of identifying local climate change problems and solutions.	Secondary	Science Environmental Science
Food, Farming and Climate Change	Students learn how climate change affects farms and farmers, research farming techniques and learn how agriculture can affect climate change in both positive and negative ways. <i>Subject content:</i> climate change, agriculture, resource management, food production and security, responsible consumption	Secondary	Science Environmental Science Social Studies
Decoding Carbon. A Carbon Policy Quest	Students will learn about how climate change is impacting the world and the role of climate policy in addressing the threats it poses. <i>Subject content:</i> climate science, climate modelling, climate justice, climate policy options & Canada's climate policy	Secondary	Science, Geography, Social Studies & Political Science
What is the Future of the Earth's Climate	In this guided inquiry students attempt to answer the (title) question. <i>Subject content:</i> climate change basics, carbon sources and sinks, climate modelling, constructing an argument	Secondary	Science, Chemistry, Geography & Social Studies
Climate Change Negotiations Game	Simulation in which students role play delegates to an international climate conference to negotiate an agreement. Realistic look at the complexity of the issue.	Secondary	Science, Geography & World Issues
Exploring Canada's Energy Future	Up to date look at Canada's energy use now and projections for the future based on current data, trends and competing interests. Includes Indigenous perspectives	Secondary	Science & Geography

B. Short Videos

Resource Title	Synopsis	Curriculum Connections	
		Grade Level	Subject Area
Climate Change (according to a kid)	This animated video uses the analogy of a blanket over the Earth to describe what causes global warming and how it affects our planet. The video also reinforces discussions about renewable and non-renewable resources, sustainability and responsible resource use.	Elementary	Science
Our Home, the Planet Earth	This video is the first of ten episodes that aim to teach students about climate change and positively influence their lifestyle to help reduce greenhouse gas production and limit climate change. Other videos in Climate Change and Me! Series	Elementary Middle	Social Studies & Science
A Call to Learning for Climate Education	This video profiles young people who have made a difference in their communities by taking action on climate change. It is supported by a lesson plan and supplemental activities.	Elementary Middle	Social Studies & Science
Climate Change: Earth's Giant Game of Tetris	Video compares the build-up of CO2 and other greenhouse gases that lead to climate change, as a game of Tetris.	Middle	Science & Social Studies
Climate Change Connections	Entertaining presentation of CC basics: what, why, evidence, impacts, actions	Middle	Science

Resource Title	Synopsis	Curriculum Connections	
		Grade Level	Subject Area
This Bulb	Natalie Portman, Kyra Sedgwick and Chloe Sevigny explain how small changes in lifestyle can help reduce greenhouse gas emissions.	Middle	Science
Climate Solutions and Equity Go Hand in Hand	This video teaches students why climate change and equity go together; they are inseparable, and it is important to infuse those interconnections into our conversations, decision-making, and just solutions for the climate crisis. The Women in Climate series offers videos centering the voices of some of the incredible women leading solutions in their communities and beyond.	Secondary	Social Studies Civic Studies
Climate 101 – What is Climate Change?	Climate Change 101 is the first video of the Keep it Cool Classrooms educational resource that tackles different but important aspects of climate change. This video introduces students to the basic facts of climate change, its causes and how Canadians are affected by climate change. The video is informative and engaging, featuring graphics that enhance comprehension of the content. It focuses on Canadian issues, specifically examining how climate change affects the health of Canadians.	Middle Secondary	Science Environmental Science
The Cost of Carbon	This video focuses attention on the global cost of climate change. Evidence from climate science and footage of real time events are used to effectively illustrate the economic, personal, environmental and geopolitical costs of carbon pollution that humans have incurred due largely to our reliance on fossil fuels. The program provides a history of climate change and its impacts from the 19 th century to today.	Middle Secondary	Geography Science Environmental Science
Kids vs Global Warming	Introduces a remarkable young teenager who crusades against global warming	Middle Secondary	Science & Social Studies
Who is Responsible for Climate Change?	The video describes the current climate crisis and the urgent need for action in order to avoid catastrophe. It provides an excellent accounting of the wide disparity in the past, present and future greenhouse gas contributions among the developed and developing countries and how this has led to finger pointing and a failure to act effectively.	Secondary	Social Studies Geography
Refugees are Fleeing Climate Change	Climate scientist Michael Oppenheimer warns of the dangers and chaos ahead from the mass migration of refugees forced to flee their homes because of climate change.	Secondary	Geography Env. Science Science
Indigenous Knowledge, Science and Climate Change in the North	The circumpolar North is on the frontlines of climate change: the land, lakes and lifeways of humans and animals are rapidly changing. Through relationship building, trust and balance between traditional knowledge and science critical solutions are possible.	Secondary	Science Env. Science Social Studies Indigenous Studies
Australian Wildfires, Climate Change and the Family Farm	Through the experience of one family, the video illustrates the connection between climate change and catastrophic events. It also makes clear the need to balance economic and environmental needs.	Secondary	Science, Geography & Social Studies
Immersive Mixed Reality-Climate Change	The video uses immersive mixed reality to ‘transport’ viewers across the globe to see the effects of climate change over time.	Secondary	Science & Geography

Resource Title	Synopsis	Curriculum Connections	
		Grade Level	Subject Area
Is a Carbon Tax the Best Way to Slow Climate Change	Examines the pros and cons of a carbon tax and cap and trade system in addressing climate change. Students examine the issue and then participate in an on-line forum.	Secondary	Science & Geography
Life on a Shrinking Island	Provides powerful evidence of the impacts of CC in Canada.... it's smallest province. Great lead into mitigation/adaptation	Secondary	Science, Geography & World Issues
Adapting to A Changing Climate	Interviews & case studies from around the world illustrate the need for and potential of climate change adaptation	Secondary	Science
Can Animals Adapt to Climate Change	This Ted Ed Talk examines how plants and animals are adapting to our changing climate. Supports teaching of evolution in HS (Biology)	Secondary	Science
Chasing Ice	Powerful illustration of the melting of arctic ice using time lapse photography.	Secondary	Science & Geography

C. Outdoor Activities

Resource Title	Synopsis	Curriculum Connection	
		Grade Level	Subject Area
Maple Trees & Marmots	A role-playing game to illustrate how changes in weather can affect the plants and animals- Subject content: characteristics of plants & animals, seasonal changes, effects of climate change	Elementary	Science
Arctic Survivor	Students role-play polar bears and their interactions with habitat components as they compete for food, water, shelter and space. <i>Subject content:</i> population dynamics, adaptation, ecosystem concept, climate change	Upper Elementary Middle	Science, Math & Physical Education
The Carbon Dioxide Game	Based on the game of tag, this simulation effectively demonstrates the role and source of greenhouse gases and how humans are enhancing the greenhouse effect. <i>Subject content:</i> Carbon dioxide, greenhouse gases, human impacts on climate	Middle	Science & Physical Education

Carbon Cycles	In this game, students follow the path of carbon through the carbon cycle to learn where carbon is stored and how it circulates. Subject content: Carbon cycle, greenhouse gases, human impact on climate	Middle Secondary	Science & Geography
The Role of CO₂	In this simulation, students take on the roles of different components of the earth's surface and atmosphere in order to demonstrate in concrete terms, the greenhouse effect and how human activity is affecting it. <i>Subject content:</i> composition of the atmosphere, types of energy, greenhouse effect, climate change	Middle Secondary	Science & Geography
Climate Change Dodgeball	Students participate in an adapted game of dodgeball to show how increasing greenhouse gas concentrations causes global warming. <i>Subject content:</i> Greenhouse gases, global warming, human impacts	Middle Secondary	Science & Geography
Greenhouse Gas Game	Using a life-sized game board (provided), students are introduced to natural and enhanced sources of three of the most common greenhouse gases and their climate impacts. <i>Subject content:</i> greenhouse gases, greenhouse effect, climate change, stewardship	Middle Secondary	Science

D. Children's Books

Resource Title	Synopsis	Curriculum Connection	
		Grade Level	Subject Area
Saving Planet Earthly	This book is the first in a series of adventures in which Thoko and her friends from around the world learn how climate change is affecting them and the plants and animals around them. Link to other books in the series	Elementary	Literacy, Language Arts, Science
Our House is On Fire	This richly illustrated picture book describes how Greta Thunberg became an influential activist who has unified youth around the world with her "School Strike for Climate" campaign. As they read her remarkable story, young students will be inspired to help protect our planet with the small changes that can help dampen the "flames" fueled by human impacts on the environment.	Elementary	Science
What in the World is Happening to Our Climate	Explains the basics of climate change through an engaging story of the travel adventures of a young girl and her friends	Elementary	Literacy, Language Arts, Science
My Wounded Island	The book explores the themes of climate change and relocation as well as describing the daily lives of the Inuit people who inhabit the island of Sarichef.	Elementary	Literacy, Indigenous Studies, Science, Social Studies

Stand Up. Speak Up	This picture book profiles 14 young people from around the world who have taken action on environmental issues.	Elementary	Literacy, Social Studies
Because IPCC: A True Story From 100 Years in the Future	This entertaining graphic novel reveals many of the causes and impacts of the climate change and the important role played by the IPCC. The graphic novel is also available in video format.	Middle Secondary	Literacy, Science & Political Science
Ship Breaker	Many problems resulting from climate change are exposed in this suspense novel based on salvage practice known as 'ship breaking'	Secondary	Literacy, Language Arts, Science & Social Studies

E. Other Tools

Resource Title	Synopsis	Curriculum Connection	
		Grade Level	Subject Area
What is a Climate Imaginary?	This resource introduces the concept of Netukulimk, and the interconnectedness First Nations feel for the land. The students will learn about abiotic and biotic factors and how they function within an ecosystem. The resource provides a hands-on activity in which students construct a biosphere to model a functioning ecosystem.	Elementary	Science
What is Climate Change	This is one of 6 questions students can explore NASA's Climate Kids website . The activity focuses on why our climate is changing and why this is important.	Elementary Middle	Science
Climate Justice	This resource is comprised of two activities addressing the effects of climate change and the global inequalities that result. Students will learn that it is often the developing countries that emit the least amount of greenhouse gases yet suffer the most.	Upper Elementary Middle	Science and Social Studies
Climate Change, Human Activities and Biodiversity	In this role-play activity students become part of a food web to learn that in ecosystems, living organisms interact and depend on each other others and are adaptable to specific climates and landscapes. Students will also explore how human actions and climate change impact biodiversity and why this is important.	Upper Elementary Middle	Science
Solutions	Solutions is an informative, educational game where students work cooperatively to fight climate change and reduce global emissions. Students face challenges and must propose climate solutions to keep warming under 1.5C. Each turn, they discuss the solutions with the highest carbon reduction impact to keep the temperature from rising too much. Students then rank the impact of their	Middle Secondary	Science Environmental Science

	chosen solutions and flip the card to determine their fate.		
How Climate Change is Impacting Northern Food Systems	This research feature explores how climate change is rapidly impacting Northern Canadian ecosystems, which in turn affects food sources for the local communities. Research highlights the need for diverse approaches to effectively support adaptation plans in the face of climate change. Around Great Bear Lake, the community has noticed these impacts, and now are in need to prepare and adapt their food system to these changing conditions.	Secondary	Science Environmental Science Biology
What is a Climate Imaginary?	This resource highlights the importance of reciprocal relationships with the land, traditional knowledge systems, and cultural resilience. It presents the Gitga'at Nation's climate imaginary— <i>Turning to the Territory</i> —which emphasizes the deep connection between people, non-human species, and place, and how these relationships shape their approach to climate adaptation.	Middle Secondary	Science Indigenous Studies
Understand How Climate Change Affects Others	This role play activity develops student empathy and understanding as they explore the inequality of climate change impacts based on age, gender, ethnicity and wealth.	Middle	Science
Writing Letters to the Earth	If the Earth had a voice, what would it say to the humans that have caused so much damage? This resource invites students to connect with their feelings about the Earth and the climate and nature crisis, and to consider how we can make change.	Middle Secondary	English Language Arts Science
Youth Climate Action Guide	This resource was designed to support youth in mobilizing their communities toward climate action. The guide offers resources and strategies to help students implement climate action initiatives that are responsive and sensitive to the needs of their community.	Middle Secondary	Science Social Studies
What Role Can Canada Play in Global Climate Action?	Students will use background information provided to summarize the Climate Change Agreements that Canada has been part of and explore Canada's efforts to address climate change.	Secondary	Geography Science Social Studies
Climate Atlas of Canada	Toolkit to examine climate impacts & efforts in Canada. Includes video, documents & maps that explore impacts, adaptation & mitigation efforts in various regions of the country.	Secondary	Science, Geography & World Issues
Global Impacts of Climate Change	Using an interactive tool from NASA, students review IPCC reports, summarize the findings and present what they have learning in poster format.	Secondary	Science
How is Climate Shaping This World	Students examine the environmental and social effects of climate change from global, national and local perspectives to gain an	Secondary	Science

	understanding of how climate change is shaping our world. <i>Subject content:</i> global warming, climate change impacts, IPCC,		
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