

Name	Activity	Session Description
Central Okanagan Public Schools (SD23)	Coding Wildlife Animations with Micro:bits	Students will have fun with this hands-on coding and Micro:bit session. They will learn to code a Micro:bit to create a wildlife animation by creating two images and quickly flipping between the two using a forever loop. They can go on to use a count-controlled loop by producing a second animation that they program.
Central Okanagan Public Schools (SD23)	Student Led Sustainability	This session will be led by students who will share their knowledge of climate sustainability.
Central Okanagan Public Schools (SD23)	Outdoor Classroom - What can the land teach us?	This session will be led by students who will share their knowledge of local Indigenous plants and their cultural uses.
Dr. Robert Young (UBC Okanagan)	Environment Ice Age - what's changed and how do we know?	We tend to look at our world through a very narrow perspective in time and area, but must realize that we arrived at this point only fairly recently. Indirect evidence from a variety of sources, in this case Ice Age Megafauna, gives us an appreciation of what's changed. We will learn that the Ice Age had an amazing variety of animals - and we were one of them. Many types of meat-eating predators existed, and it's lucky we didn't all get eaten. Come and meet some Ice Age animals, and decide for yourself if people should have been confident or very worried.
Geering Up	Geering Up Presents: Forest Superheroes	Calling all Eco-Superheroes! Wildfires, deforestation, climate change and more, mean that our forests need your help. In this hands-on workshop, students will explore the role that forests play in our ecosystems and some of the challenges facing one of our largest natural resources. Using the Engineering Design Cycle and some creative thinking, we will design conservation solutions to promote sustainable forest management practices. Our trees will thank you!
Healthy Exercise and Aging Lab (Dr. Jakobi)	How Muscles Make Movement	Come explore the world of movement control with the Healthy Exercise and Aging Lab. We'll discuss how "signals" from the brain activate muscles to produce purposeful movement, and how keeping healthy contributes to promoting sustainability in our world.
iSTAND	The Salmon Connection	Learn about the basic properties of a watershed and how the ability of salmon to move from one location to another is affected by climate change. This hands-on activity illustrates how development and climate decisions can impact salmon in our local watersheds, rivers and lakes.
iSTAND	Climate Capers	How can we all be more climate aware? Join us on this adventure of collecting clues from nature to solve the climate crises!
Kelowna Museum Society	Waterworld: Science of the Okanagan	Learn the history and science of the Okanagan Lake and ways we can keep the lake safe through (T.E.K) Traditional Ecological Knowledge or other forms of waterway conservation.

LEGO Robotics with Tobias Blaskovits	Exploring Sustainability with LEGO Robots	Students will explore how coding and robotics can play a fundamental role in sustainability practices. This session will involve students getting hands-on to learn how to code a LEGO Spike Prime robot to complete a number of different sustainability themed challenges.
Let's Talk Science	Climate Science Sampler	The class will be separated into three groups that rotate through three different hands-on activities: 'Tree Rings', 'pH Water Testing' and 'Water Debris Breakdown Time'. Tree Rings: Students will look at tree rings with magnifying glasses learn how tree rings can give scientists important information about the changing climate conditions in an area. Water pH Testing: Students will test different sources of water and other solutions and learn why pH is important for water quality. Water Debris Breakdown Timeline: Students will create a timeline of breakdown for different plastics that are found in waterbodies.
Mobile Biology	Marine Biology: Biomes	Students will explore the environmental differences of various biomes and discuss organisms' adaptations. Students will get to create their own animal. Students will then interact with preserved and live animals.
Ocean Networks Canada	Your Coastal Connection	Did you know that you can thank ocean-dwelling plankton for every other breath you take? No matter where we live, we are all connected to the ocean through rivers, streams, estuaries, and more. Learn about ocean creatures and explore ocean connections through these fun, hands-on experiments and activities.
Okanagan iGEM	Save the Animals! Climate Change Due to Greenhouse Gases (Co2)	Come explore how climate change affects animals through hands-on scenarios, experimentation and design.
Okanagan Marine Design	Autonomous Underwater Vehicle Showcase	At this session, you will have the opportunity to learn more about autonomous submarines and the various components that go into it. There will also be multiple sub-stations that highlight different sub-teams and have fun interactive activities.
Okanagan Regional Library	Code Quest: Embark on a Programming Adventure!	Attention young explorers! We invite you to "Code Quest," a coding odyssey. Dive into the digital realm with Code Combat, where you'll tackle puzzles and challenges that teach the fundamentals of programming. This quest doesn't require previous coding experience—just bring your curiosity and brace for an adventure that combines logic, creativity, and the thrill of discovery. Your mission awaits at the Expo of Awesome—will you answer the call to adventure?

Okanagan Science Centre	Harnessing the Power of Wind: Exploring Renewable Energy with Wind Turbine Models	In this STEAM learning session, students will explore the power of wind energy through the construction and experimentation of wind turbine models. They will explore the concept of wind energy and its potential as a clean and abundant source of power by designing and assembling their own turbines and experiment how they operate with different wind speeds. This learning session will encourage students to think critically about the broader implications of wind energy and its role in the transition to a sustainable future.
RDCO Parks	Greenhouse gasses game. Burp!	Join Park interpreters outside for a hands-on learning game that dives into what causes greenhouse gases and the impact on global climate. Bring your running shoes and be ready to move around.
Royal BC Museums	Oceans, Freshwater and Us Giant Floor Map	This map offers students (of all ages) an opportunity to discover and explore the diverse aspects of geography in a unique and interactive way. The map covers waterflow, wetlands, ocean protected areas, terrestrial protected areas, permanent sea ice, First Nations boundaries, languages, communities, reserves and settlements on the land.
Science World/WWEST	Micro:bits for Sustainable Fun	Join this hybrid session led by Science World and WWEST that will use Micro:bits to take you on an adventure of sustainable fun.
WWEST	Climate Chemistry	Students will learn the impact of climate change through participation in chemistry-based experimentation fun and learning!