



**scientists**  
IN SCHOOL  
**scientifiques**  
À L'ÉCOLE

2021/2022 Curriculum-Enhancing

# VIRTUAL STEM WORKSHOPS

Kindergarten to Grade 7 | British Columbia



After 32 years, **Scientists in School** is branching out. We are now delivering our engaging **hands-on STEM workshops virtually**. All of the highly investigative activities you expect, **delivered safely and seamlessly** to your classroom.

**Cost: \$250**

Class size: 27 Students Maximum

Duration: 1 hour

**Click here  
to book!**

## Age Groups

Click on the grade below to access descriptions of the virtual workshops available for your students:

Kindergarten

Grade 1

Grade 2

Grade 3

Grade 4

Grade 5

Grade 6-7

We understand how important virtual security and privacy are to you. We ensure our seamless workshop delivery through Microsoft Teams is secure and private.

## Value Proposition

Your inquisitive students, under the guidance of experts, will become scientists, engineers and environmental stewards while developing the global competency skills they need to become tomorrow's STEM workforce.

## Our virtual classroom workshops bring:

- + Individually packaged investigative materials provided in advance.
- + Fun and relevant investigations that build critical thinking, creativity, and problem-solving skills.
- + The opportunity to highlight STEM careers and professional opportunities for students.
- + Dynamic presenters, who are scientists, engineers, and technologists.

## How it works:



Browse through this catalogue and select a workshop.



Book a workshop by visiting the booking portal [here](#).



Receive mini science bags and distribute to students.



Join the Microsoft Teams meeting.



Presenters lead the workshop remotely.



# Kindergarten

Virtual STEM workshops delivered across Canada | [www.scientistsinschool.ca](http://www.scientistsinschool.ca)

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## Let's Be Scientists!

Kindergarten

Explore all kinds of amazing things as a scientist. Investigate what makes yeast grow. Take your animal for a walk and examine how it moves. Analyze a mystery footprint and identify who came to visit. Engineer a structure to keep your friends dry when it rains. Ready? Steady? Let's be scientists!

## On the Move!

Kindergarten

Explore how things move! Discover the science behind a magic trick, defy gravity by creating a balancing bird, engineer a car and race it to the finish line. We'll be on the move!

## Sticky Science

Kindergarten

Get sticky with it! Discover the science of sticky. Make your own glue from food products and test them to see how they hold. Create your own sticky art. And of course, there will be silly putty!

**Participants receive their own MINI SCIENCE BAG and get to keep all of the materials!**



Our Kindergarten friends were SO engaged during our virtual workshop. They had a blast being little scientists and experimenting with different materials to learn about physics. I'm looking forward to continuing our exploration and extending the learning after our workshop!

Kindergarten Teacher



# Grade 1

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Duration: 1 hour

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## Intriguing Invertebrates

Grade 1

Who has thousands of teeth? Who can float on water? Are you intrigued? Students will learn about the invertebrates in their own backyards by creating models of these creatures. Physical characteristics, habitats they live in, the way they move and eat will be investigated with hands-on and engaging activities.

## Structures, Materials and More

Grade 1

Follow an engineer's journey from materials to structure. Explore a variety of materials to understand their qualities. Then, through trial and observation, test for structural effectiveness. Learn about attaching items with a fun fastener challenge. Finally, build with materials to understand the purpose of structures.



Scientists in School provided an engaging, real life learning opportunity for my students. I love that each student has their own Mini Science Bag to allow students to further the concepts that we experienced as a class.

Grade 1 Teacher

Participants receive their own MINI SCIENCE BAG and get to keep all of the materials!



# Grade 2

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Cost: \$250

Class size: 27 Students Maximum

Duration: 1 hour

**Book here!**

## Amazing Forces!

Grade 2

Amazing forces are all around us! Get creative by engineering a maze, then use gravity and magnetic force to navigate it. Investigate friction caused by different surfaces and its effect on movement. Design and build your own launching device, exploring stored energy and control of force.

## Properties Really Matter

Grade 2

Liquids and solids are everywhere! Explore household solids and liquids and how they interact. Investigate the properties of solubility, absorption and buoyancy. Then engineer the solution to a common problem. Create an unusual concoction from an everyday solid and watch it dance!

**Participants receive their own MINI SCIENCE BAG and get to keep all of the materials!**



The workshop was engaging, extremely hands-on and interactive. The kids were interested and participating the entire time. They loved the Mini Science Bags that went along with the lesson. Yet another great experience!

Grade 2 Teacher



# Grade 3

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Cost: \$250

Class size: 27 Students Maximum

Duration: 1 hour

**Book here!**

## Hoo's in the Owl Pellet?

Grade 3

Experience being a real-life biologist! Use an integrated STEM approach to investigate the diet of an owl and estimate the prey number and type. Dissect an owl pellet, sort and identify bones. Opportunities pre- and post-workshop to enhance your student's literacy, numeracy and visual arts activities by integrating owl pellet dissection and analysis into your program.

## Our World of Energy

Grade 3

Follow the influence of the sun as we study the impact energy has in our world. Investigate light and sound energy. Transform chemical energy into heat while making bubbles. Discover how to conserve heat and experiment with your own little house. Create a storyboard to follow the path of energy from the sun to all living things.

## Wetland Wonders

Grades 3-4

Become immersed in the world of wetlands. Discover who makes a home here and how they influence their environment. Create a food chain and explore invasive species. Build a wetland and learn the importance of preserving this habitat. Wetlands are truly a wonder.



I'm using this workshop as a model for ways to improve my teaching and science program. I love the ongoing questions and surplus of materials that students keep to continue their exploration and discovery. Fantastic!

Grade 3 Teacher

Participants receive their own MINI SCIENCE BAG and get to keep all of the materials!



# Grade 4

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**Cost: \$250**

Class size: 27 Students Maximum

Duration: 1 hour

**Book here!**

## As a Matter of Fact...

Grade 4-5

Discover why chemistry matters! Explore solubility, crystallization and a change in state while writing your initials. Create a situation where nothing remains the same and observe and identify the indicators of a chemical change. Solve a mystery using the physical and chemical properties of materials found in the cupboard!

## Sounds Like Science

Grade 4

Follow the vibrations to discover the properties of sound: pitch and volume. Design and build ear protectors, while experimenting with materials that absorb or reflect sound. Use your newfound knowledge to create a unique musical instrument.

## Wetland Wonders

Grades 3-4

Become immersed in the world of wetlands. Discover who makes a home here and how they influence their environment. Create a food chain and explore invasive species. Build a wetland and learn the importance of preserving this habitat. Wetlands are truly a wonder.



Each time I use Scientists in School I see my students' faces light up and become highly engaged in the world of science. Always a positive learning experience for students and teachers.

Grade 4 Teacher

Participants receive their own MINI SCIENCE BAG and get to keep all of the materials!



# Grade 5

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Cost: \$250

Class size: 27 Students Maximum

Duration: 1 hour

**Book here!**

## As a Matter of Fact...

Grade 4-5

Discover why chemistry matters! Explore solubility, crystallization and a change in state while writing your initials. Create a situation where nothing remains the same and observe and identify the indicators of a chemical change. Solve a mystery using the physical and chemical properties of materials found in the cupboard!

## Every Body Moves:

Grades 5-6

Pop into the inner workings of the Human Body. Create a model to learn how systems work together to put an arm in motion. Experiment to find which fuel source works best to energize us. Explore the digestion process as food travels down the tract. Movement is in every body!

**Participants  
receive their own  
MINI SCIENCE BAG  
and get to keep  
all of the  
materials!**



[The workshops] are always so engaging and provide a hands-on learning experience. Even with the pandemic, Scientists in School delivered a safe, exciting and informative session. They were so adaptable and flexible. Can't wait to book again next year!

Grade 5 Teacher



# Grade 6 - 7

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Cost: \$250

Class size: 27 Students Maximum

Duration: 1 hour

**Book here!**

## Every Body Moves:

Grades 5-6

Pop into the inner workings of the Human Body. Create a model to learn how systems work together to put an arm in motion. Experiment to find which fuel source works best to energize us. Explore the digestion process as food travels down the tract. Movement is in every body!

## Our Place in Space

Grade 6

Explore Earth's relationships within our solar system. Discover how to tell time using the sun and an instrument you keep in your pocket. Examine the phases of the moon with the help of a special device. Construct and test technology used at the International Space Station. Find out more about our place in space!

## Electricity: Close the Circuit!

Grade 7

Explore the nature of electricity and its use. See how static electricity makes objects move. Design and build circuits to learn how a house is wired. Test conductors, insulators and switches.

## Finding Solutions!

Grade 6-7

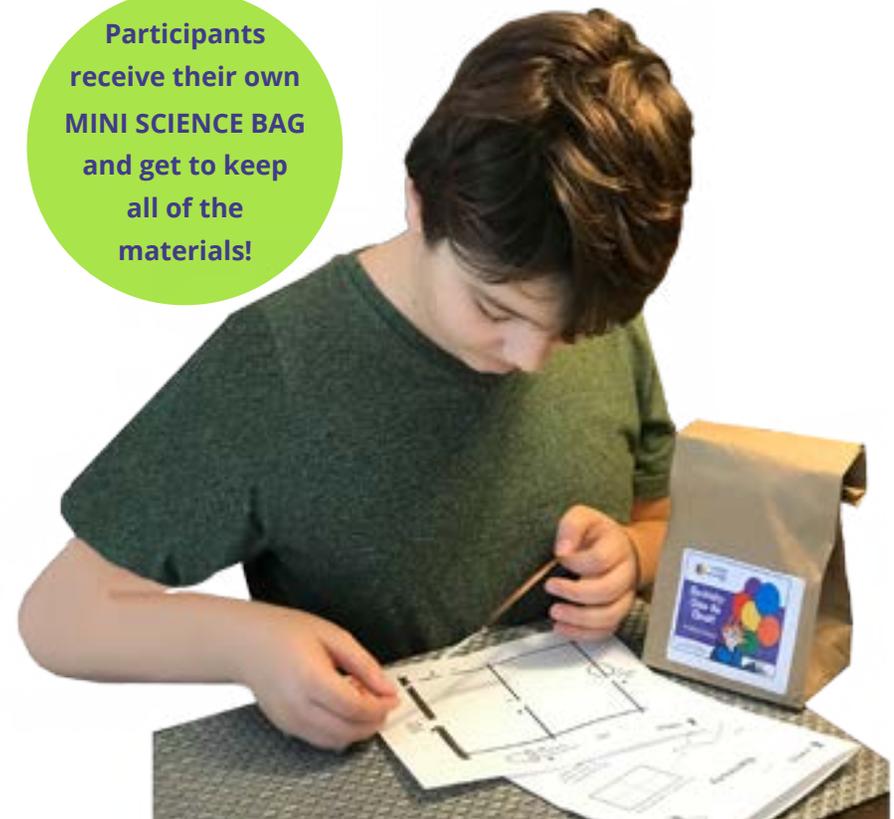
Be part of our STEM start-up company and design a planet-friendly bath product. Check out the competition and define criteria which will differentiate your creation. Explore the properties of matter and learn about acidity and basicity. Use the particle theory to communicate the results of investigations into concentration and rate of dissolving. Then use your science savvy to plan, design and test your own magic formula.



Such a great workshop! The kids had a great time and have been talking about it ever since! We learned so much and it was a great kick-off to our science unit. One girl even said she wanted to be an engineer after the workshop - I was thrilled!

Grade 6 Teacher

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# OUR ANNUAL IMPACT

2020-2021:  
Organization-wide



## Our Mission

Our Mission is to ignite scientific curiosity in children so that they question intelligently; learn through discovery; connect scientific knowledge to their world; are excited about science, technology, engineering and math; and have their interest in careers in those fields piqued.

## Our Vision

Our Vision is for all young Canadians to be actively engaged in the seeing, doing and understanding of science.

We are very grateful to have engaged 185,000 children in rich, engaging virtual experiences, during a year of challenging health restrictions. We're looking forward to expanding our reach with both in-person and virtual experiences in the future.



**400**

Communities across Canada



**8,000**

Virtual classroom and community workshops delivered



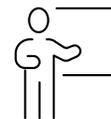
**185,000**

Children and youth inspired through workshops



**185,000**

Mini Science Bags packed and delivered



**10,800,000**

Face time minutes of investigation



**10,000,000+**

Young scientists inspired since 1989!



# PARTNERS IN STEM

Scientists in School is a leading science education charity that has reached over 10 million young scientists since our founding in 1989. Through our hands-on, inquiry-based STEM classroom and community workshops, we strive to ignite scientific curiosity in children so that they question intelligently; learn through discovery; connect scientific knowledge to their world; get excited about STEM; and have their interest in careers in those fields piqued.

None of this would be possible without the support of our corporate, community, government and individual donors who provide funding that is used to subsidize the cost of all workshops, provide complimentary workshops to schools and organizations in marginalized and under-resourced communities, develop new programs and improve existing programs, and expand to new communities across Canada.

A registered Canadian charity:  
#867139537RR0001.

Photo Credits: MaryAnn Griffin, Kim Lowes, Kathy Moore, and Sara Pournader

## Catalyst

- Natural Sciences and Engineering Research Council of Canada
- Ontario Trillium Foundation

## Innovation

- Investment Readiness Program
- John and Deborah Harris Family Foundation
- Nuclear Waste Management Organization
- Ontario Power Generation
- TD Friends of the Environment Foundation

## Imagination

- ArcelorMittal Dofasco
- Canadian Nuclear Safety Commission
- MilliporeSigma, the U.S. and Canada Life Science Business of Merck KGaA, Darmstadt, Germany
- Nissan Canada Foundation

## Discovery

- Alectra Utilities
- AMD Canada
- City of Hamilton – City Enrichment Fund Program
- CST Inspired Minds Learning Project
- Edith H. Turner Foundation, Hamilton Community Foundation
- Edmonton Community Foundation
- F. K. Morrow Foundation
- G. Murray and Edna Forbes Foundation Fund, South Saskatchewan Community Foundation
- General Motors
- Hamilton Community Foundation
- Hunter Family Foundation
- Kiwanis Club of Ottawa Foundation
- Municipality of Clarington
- Ottawa Community Foundation
- Pendle Fund, Community Foundation of Mississauga
- S. M. Blair Family Foundation
- Superior Glove Works
- Syncrude
- Systematix Inc.
- The Arthur & Audrey Cutten Foundation

- The Catherine & Maxwell Meighen Foundation
- The Gordon & Ruth Gooder Charitable Foundation
- The Lorne and Evelyn Johnson Foundation, South Saskatchewan Community Foundation
- The McLean Foundation
- The Saint John's Legacy Foundation
- The Township of Tiny
- Vesta Energy

## Exploration

- Ajax Community Fund at Durham Community Foundation
- Brant Community Foundation
- Cajole Inn Foundation
- Cambridge & North Dumfries Community Foundation
- Canadian Foundation of University Women Owen Sound and Area
- City of Brantford
- Community Foundation for Lennox & Addington
- Community Foundation of Grey Bruce
- Durham Community Foundation
- Elexicon Energy
- Lab X Media Group at Huronia Community Foundation
- Martin Foundation Fund at Hamilton Community Foundation
- Municipality of South Bruce (South Bruce Community Liaison Committee)
- Niagara Community Foundation
- Perth and District Community Foundation
- Scarborough Garden & Horticultural Society
- Siemens Canada Limited, Peterborough
- Society of Petroleum Engineers Canadian Educational Foundation
- The Community Foundation of Orillia and Area
- Town of Whitby, Mayor's Community Development Fund

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