

**SCIENTISTS IN SCHOOL'S**  
**Curriculum-Aligned Online STEM Workshop Program**  
**BRITISH COLUMBIA**

Check out  
our **ONLINE**  
workshops  
inside!

**2023-2024**

Kindergarten -  
Grade Seven



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

Scientists in School, a leading Canadian science education charity, has been delivering high-quality, rich, investigative STEM workshops for over 34 years. Our ONLINE workshops are inquiry-based, curriculum-aligned, and fun, helping propel Canada's young people to bright futures. Curiosity and discovery are at the heart of every workshop! Each student receives their own materials bag for the investigations. Our goal is a highly interactive experience with our 'visiting' STEM role models and your class.

Online Workshop Fee:  
**\$250\***

60 minutes in length.  
30 student maximum.

Click  
here to  
book!

## Age Groups

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

Kindergarten

Grade 1

Grade 2

Grade 3

Grade 4

Grade 5

Grade 6-7

**\*DID YOU KNOW?** Scientists in School is a Canadian Charitable Organization and does not charge HST/GST. Our workshop fee is subsidized by generous donors and supporters!

## Our Impact

Our goal is to provide high-calibre workshops that kids talk about all week, tell their families about, and list as one of **the best experiences** in their school year! We want all children to be excited about learning, keep exploring after the workshop is over, and make a difference in the world around them.

## Our online classroom workshops bring:

- + Individually packaged investigative materials provided in advance for each student, that is theirs to keep!
- + 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, passionate 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**.



Presenter will contact you to confirm date and time.



Receive mini science bags in advance for each student.



Presenters lead workshop live through Microsoft teams or another platform.



# K

\$250\* | 60-minutes  
30 student maximum

More than 30 students? Email us at [bookings@scientistsinschool.ca](mailto:bookings@scientistsinschool.ca) to discuss.

[www.scientistsinschool.ca](http://www.scientistsinschool.ca)

Online STEM workshops  
Canada-wide!

Book  
here!

## 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. 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!



“Our Kindergartens  
were so engaged and  
had a blast experimenting  
with physics materials.  
I'm looking forward to  
continuing our exploration  
and extending the learning  
after our workshop!”

~ Kindergarten Teacher ~

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1

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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 engaging  
real-life learning opportunities  
for my students. I love  
that each student has their own  
Mini Science Bag to allow  
students to further the concepts  
experienced in class.”

~ Grade 1 Teacher ~

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## 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. Experiment with a launching device, while 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!



“This is an  
**amazing program that**  
brings science alive in the  
**class and everyday lives**  
of students. Very engaging,  
**hands-on, and facilitates**  
critical thinking. I highly  
**recommend!**”

~ Grade 2 Teacher ~

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### Hoo's in the Owl Pellet?

Grades 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

Grade 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  
to improve my teaching and  
science program. I love  
the ongoing questions and surplus  
of materials that students  
keep to continue exploration and  
discovery. Fantastic!"

~ Grade 3 Teacher ~

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### 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

Grade 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 ~

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## 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:

Grade 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!

## Get it in Gear

Grade 5

Simple machines are all around us! Discover where we use levers, gears and pulleys in everyday life. Investigate how levers lift. Assemble gear trains and belt drives and examine how they operate. Construct different pulley systems and explore why we use them.



“It was fantastic  
to see all of my  
students, no matter what  
their ability or knowledge  
level, so fully engaged in  
their learning. I would  
highly recommend!”

~ Grade 5 Teacher ~

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## 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.

## Every Body Moves:

Grade 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!

## 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.

## 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!

“Such a great  
**workshop! The kids  
had a great time and have been  
talking about it since!**  
We learned so much and it was a  
**great kick-off to our science  
unit. One girl said she wants  
to be an engineer!”**

~ Grade 6 Teacher ~

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## Partners in STEM

With the support of corporate, community, government and individual donors, our leading science education charity has reached over 10 million young scientists since 1989. Their funding supports us in developing/revising programming and topic kits; subsidizing the cost of every workshop; providing at least 10% of our workshops on a complimentary basis to schools serving marginalized communities; and developing the infrastructure to ensure relevant, high quality experiences for students wherever they live in Canada.

### Catalyst

Natural Sciences and Engineering  
Research Council of Canada

### Innovation

Government of Alberta – Civil Society Fund  
John and Deborah Harris Family Foundation  
MilliporeSigma  
Nuclear Waste Management  
Organization  
Ontario Power Generation  
TD Friends of the Environment  
Foundation

### Imagination

AMD Canada  
ATB Financial  
Drax Foundation  
Robert Kerr Foundation  
SC Johnson

### Discovery

Ajax Partnership Fund | Bartek  
Ingredients | City of Branford | Electrical  
Safety Authority | Elexicon Energy | General Motors |  
Heartland Generation | Hunter Family Foundation |  
Innisfil Community Foundation | Municipality of Clarington |  
Nissan Canada Foundation | Oshawa Community Grants |  
Ottawa Community Foundation | Red Deer & District  
Community Foundation | S.M. Blair Family Foundation |  
Superior Glove Works | TC Energy | The Catherine & Maxwell  
Meighen Foundation | The Fund for Gender Equality |  
The McLean Foundation | The Saint John's Legacy  
Foundation | The Township of Tiny | Thomas Sill  
Foundation | Town of Whitby, Mayor's  
Community Development  
Fund

### Exploration

Bowmanville Rotary Club | Brampton  
and Caledon Community Foundation |  
Burlington Hydro | Cajole Inn Foundation | Canadian  
Nuclear Safety Commission | Centre Wellington  
Community Foundation | Durham Community Foundation |  
Huron Community Foundation: John and Jan MacIntyre  
Community Endowment Fund, and the Tom and Lucille Gay  
Memorial Endowment Fund | Kawartha Credit Union | London  
Community Foundation: Acorn Fund for Youth, In Honour of  
Terry Campbell | PortsToronto | RBC Digital OMNI Team |  
Rotary Club of Brampton | Rotary Club of Oakville Trafalgar |  
Rotary Club of Pelham | Rotary Club of St. Catharines |  
Smart and Caring Children's Fund, Community  
Foundation of Mississauga | The Community  
Foundation of Orillia and Area |

We are also thankful to  
Macdonald & Company LLP,  
McMillan LLP, MLT Aikins LLP,  
Stewart McKelvey and  
Taylor McCaffrey LLP  
for providing in-kind support  
to Scientists in School.

Scientists in School is a registered  
Canadian charity: #867139537RR0001.  
[www.scientistsinschool.ca](http://www.scientistsinschool.ca)

# OUR ANNUAL IMPACT

2022-2023:  
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.

## Join our newsletter!

Stay connected and be the first to know about new workshop topics being launched.

We are grateful to have engaged 277,000 children this year through investigative hands-on STEM experiences, opening the wonders of science, engineering, technology, and math!



**490**

Communities across Canada



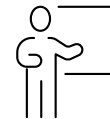
**277,000**

Children and youth inspired through workshops



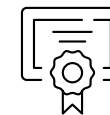
**6,200**

Online classroom and community workshops delivered



**860,000**

Face time minutes of investigation



**10,000,000+**

Young scientists inspired since 1989!

