

SCIENTISTS IN SCHOOL'S
Curriculum-Aligned Online STEM Workshop Program
QUÉBEC

Check out
our **ONLINE**
workshops
inside!

2023-2024

Kindergarten
to Cycle One
Secondary



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:
\$240*

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

Cycle One

Cycle Two

Cycle Three

Cycle One Secondary

***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

\$240* | 60-minutes
30 student maximum

More than 30 students? Email us at
bookings@scientistsinschool.ca to discuss.

www.scientistsinschool.ca

Online STEM workshops
Canada-wide!

Book
here!

On the Move!

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 ~

Participants receive a mini science bag and keep the materials!

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Cycle One

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Intriguing Invertebrates

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.

Properties Really Matter

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!

Structures, Materials and More

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.”

~ Cycle One Teacher ~

Participants receive a mini science bag and keep the materials!

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Cycle Two

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Get it in Gear

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.

Hoo's in the Owl Pellet?

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.

Strong Structures

Build your knowledge of structural strength as a junior engineer. Discover how to design a structure to withstand both tension and compression. Test different materials for strength, and investigate how the strength of a material can be altered by manipulating its shape!



“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.”

~ Cycle Two Teacher ~

Participants receive a mini science bag and keep the materials!

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Cycle Three

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30 student maximum

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As a Matter of Fact...

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!

Electricity: Close the Circuit!

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.

Shine a Light

Join us on this optical adventure and learn how light interacts with everything around us! Discover how light travels, passes through objects, and makes shadows. Students will explore reflection and refraction and see how these principles are applied in a fibre-optic cable.

Up in the Air!

It's all about balance when exploring flight. Coanda effect, the properties of air and Newton's third law are all important when soaring above the clouds. Experiment with a variety of materials to construct the perfect parachute and make a glider that will boggle your mind.

"Students were actively engaged in activities, and participated in all aspects of the scientific inquiry process. I learned a great deal as well, especially about careers in science and genetics. I highly recommend!"

~ Cycle Three Teacher ~

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Cycle One Secondary

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30 student maximum

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All Systems Go!

Get a grip on systems! Build an assistive hand device like those created by biomedical engineers to aid with fine motor skills. Explore inputs and outputs as you design and analyze linkages, incorporate pneumatics, assess mechanical advantage and consider tradeoffs in force, distance and materials. It's all systems go!

Engineer It: Up, Out and Across

Your students will use sophisticated building techniques to test the limits of three different structures. Build up to new heights with a tower challenge; build out to explore cantilevers; and build across while learning about the wonders of suspension bridges.

Finding Solutions!

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.

Genetic Diversity and You!

Explore the genetic diversity in plants, animals and humans through genetic traits. Find out which traits are common and how they are passed down. Read chromosomes, examine families and calculate the probability of traits passing to the next generation. Enhance your understanding of mutations by making a DNA model of your name.

"I absolutely LOVED this workshop. My students were engaged from start to finish. The class continued exploring with the materials long into the afternoon after the workshop was over."

~ Cycle One Secondary 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 |

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to Scientists in School.

Scientists in School is a registered
Canadian charity: #867139537RR0001.
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



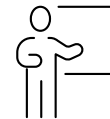
277,000

Children and youth inspired through workshops



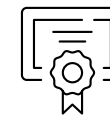
6,200

Online classroom and community workshops delivered



860,000

Face time minutes of investigation



10,000,000+

Young scientists inspired since 1989!

