



UBC Geering Up
Engineering Outreach

VIRTUAL COMPUTER SCIENCE WORKSHOPS

Geering Up offers subsidized virtual coding workshops consisting of exciting software-based activities that stimulate computational thinking and literacy.

Workshops will be led by two Geering Up instructors who will help equip students with the tools and knowledge they need to further explore computer science after the workshop.

Dates: May 10-June 18, 2021

Length: 1-1.5 hours; up to 3 workshops a day

Cost: \$100 per workshop

We offer financial support to schools who would otherwise be unable to afford our workshops, please see the registration form below for more details.

SAMPLE SCHEDULE

Our workshops are designed for single classes of up to 30 students. Each of our teams can teach up to three workshops a day, according to the following schedule. We are happy to accommodate the nuances of your school's bell schedule.

Workshop 1 9:00 am - 10:15 am

Workshop 2 10:30 am - 12:00 pm

Workshop 3 1:00 pm- 2:30 pm

CONTACT US

Email: workshops@geeringup.ca

Website: <http://geeringup.ca/teachers/workshops>

Address: Room 160, 3800 Wesbrook Mall, Vancouver BC, V6S 2L9

A network member of
actua
Youth · STEM · Innovation

Geering Up is a proud network member of Actua. Actua provides training, resources and support to its national network of members located at universities and colleges across Canada in the delivery of science, technology, engineering and mathematics (STEM) education outreach programming. Each year these members engage over 225,000 youth in 500 communities nationwide. Please visit Actua at www.actua.ca.



COMPUTER SCIENCE WORKSHOPS

Roaming Robots (Grades K/1)

Robots are all around us! In this workshop, students will learn what a robot is and how they can be controlled. This workshop is unplugged - no computers are required.

Emotion Detector (Grades 2/3)

Technology is a vital part of how we communicate today. In this workshop, students will use technology to communicate by programming an online micro:bit simulator to express different emotions.

**Please note that micro:bits are not required to participate in this workshop, however, if you have micro:bits in your classroom, you can use them during this workshop.*

Innovation Generation (Grades 3/4)

3D modelling allows students to bring their creative ideas to life. This workshop will culminate in a design and build challenge where students will create their own projects with the help of a 3D modelling software.

Dino Run (Grades 4-6)

Programming is all around us and is used to build all of the games we love to play! Using Scratch, students will learn to use code and their creativity to create their very own interactive game.

Manufacturing Pioneers (Grades 6/7)

In this workshop, students will become engineers and manufacturers and use 3D modelling and programming to create their very own digital projects.

BC Curriculum Ties: All of our coding workshops meet multiple components of the Applied Design, Skills and Technologies Curriculum for K - 7.

VIRTUAL WORKSHOPS

All of our workshops will be conducted via Zoom or your preferred video platform; links will be provided in advance of the workshop. Geering Up instructors should be projected on a classroom projector screen for students to follow along. **Each student or pair of students will need a computer or tablet with internet connection to participate in the workshop activities**, with the exception of Roaming Robots which is unplugged. Computers are most compatible with our workshops but tablets work as well; please specify on the registration form below any technology you have available for your classroom.

WORKSHOP REGISTRATION

School Name:

Primary Contact:

Primary Contact Email:

Primary Contact Phone:

Available Technology for your Classroom:

If you would like to request financial assistance for this workshop, please tell us why:

Workshop Date	Workshop Time Slot	Workshop Topic	Teacher	Class size	Grade

If you wish to book more workshops than allowable in the space provided, please contact us at workshops@geeringup.ca

Frequently Asked Questions

I have multiple days that are available for a workshop. What should I do?

Please list all dates that you have available for your booking and we will get back to you about which one would work best!

What should I do if I am unable to book the workshop due to financial constraints?

We offer some financial support to schools who would otherwise be unable to afford our workshops. Please tell us more about your situation in the registration form or via email and we will try to accommodate your request.

What other information could I include when sending my registration form?

Please include any additional information that you feel could be helpful for our workshops team to know to ensure the success of your workshop. This may include, but is not limited to, students with exceptionalities, classroom limitations, special considerations, and so on.

I have a different question. What should I do?

Visit our website, <http://geeringup.ca/teachers/workshops>, or contact us at workshops@geeringup.ca for any questions that you may have.