

# SAMPLE SCHEDULE

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 schools' bell schedule.

9:00am - 10:00am	Workshop 1
10:30am - 11:30am	Workshop 2
1:00pm - 2:00pm	Workshop 3

# ACTUA

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](http://www.actua.ca).

# CONTACT US

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**WE LOOK FORWARD TO HEARING FROM YOU!**



## GEERING UP UBC ENGINEERING & SCIENCE FOR KIDS

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A network member of actua.ca

**actua**  
Youth · STEM · Innovation

### 2016 ACTUA NATIONAL FUNDERS

Google Canada  
Canadian Heritage  
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GE Canada  
Natural Sciences and Engineering Research Council of Canada (NSERC)  
Status of Women  
Lockheed Martin

## GEERING UP UBC ENGINEERING & SCIENCE FOR KIDS



## ELEMENTARY SCHOOL WORKSHOPS

## WHAT ARE GEERING UP WORKSHOPS?

Geering Up offers engineering and science workshops consisting of exciting demonstrations, interactive experiments, and hands-on activities. Workshops include **two instructors** equipped with all supplies, enthusiasm, and excitement for **1-1.5 hour sessions**.

**DATES:** May 8<sup>th</sup>-June 9<sup>th</sup>

**LENGTH:** 1-1.5 hours  
up to 3 workshops/day

**PRICING:** \$130 for 1  
\$115 for 3  
\$100 for 6+

To help offset the cost of vehicle rental and travel time, travel fees apply to all schools outside of Vancouver. Please visit [www.geeringup.ca/workshops](http://www.geeringup.ca/workshops) or email us at [workshops@geeringup.ca](mailto:workshops@geeringup.ca) for more information.

### KINDERGARTEN: ECOSYSTEMS EVERYWHERE

How do living things change to survive in the cold winter versus the warm summer? What do living things need to survive? Join Geering Up and we will explore how living and non-living things interact in their ecosystems and discover what it would take to engineer our own ecosystem. **BC Science Curriculum links:** *Seasonal Changes Affect all Living Things, Observable Features of Plants and Animals.*

### GRADE 1: MOLECULES MATTER

It's time to find out what makes up you, the ground you're standing on, and everything else around us on earth. Dive into the world of matter as we learn about its properties with fun projects and demonstrations! This workshop includes experiments that will help us understand the cycles that happen not only in the sky above us but also on land. There is even a project to bring the excitement home with students. **BC Science Curriculum links:** *Properties of Matter, Cycles and Patterns in the Sky and Landscape*

## WORKSHOP TOPICS

### GRADE 2: CRAZY CHEMISTRY

The world around us is filled with change—even the land we are on right now has changed over time. While some of this change is reversible, other changes are permanent. It's time to put on our lab coats and become scientists to discover what causes these changes and why some cannot be undone. **BC Science Curriculum links:** *Physical and Chemical processes, Changing the Shape of Land.*

### GRADE 3: WE ARE THE WORLD

How do scientists sort living organisms into categories? What characteristics do living things have in common? How do living things interact with their environment? In this workshop we will explore how living and non-living things interact in their ecosystems and discover the biodiversity present on earth. **BC Science Curriculum links:** *Classification of Organisms, Interdependence of Living Things on their Environment.*

### GRADE 4: ELEMENTARY ENERGY

Join Geering Up for a fun, energetic workshop that will explore all the different phases of matter and the different forms of ENERGY. We will learn about the different properties of matter around us and discover how they can be changed by adding or removing energy. **BC Science Curriculum links:** *Matter, Energy.*

### GRADE 5: OH MY ORGANS

Let's learn how some of the organ systems in your body work together to keep you alive! It's time to get hands-on with digestion and respiration! Join Geering Up as we explore the different parts of the digestive system, and learn about the the organ system that keeps you breathing. **BC Science Curriculum links:** *Organ systems, Digestive and Respiratory Systems.*

### GRADE 6: PHENOMENAL FORCES

Through hands-on and interactive activities, demonstrations and a quick lesson, students will discover how Newton's three laws work together to influence the motion of objects. Students will also learn about gravity and other forces that can be combined to create motion and those that keep objects in place. **BC Science Curriculum links:** *Newton's Laws of Motion, Gravity.*

### GRADE 7: CHARGE UP

Get ready to dive into a microscopic world filled with atoms of all different types and learn how electricity fuels our lives. What do you know about electricity? It's time to learn about how electric circuits work, and build some of your own. We will spark your interest as we generate positive ideas about circuits and clean energy. **BC Science Curriculum links:** *Electricity, Magnetism, Atoms, Circuits.*

## COMPUTER SCIENCE

### GRADES 1-3: BUGBOTS

Through the use of the MIT Scratch software, students will learn how to think in conditionals by developing their own online robot! They will be introduced to core programming principles and how a computer goes from receiving instructions to executing!

### GRADES 4-7: LIGHTS IN TECH

Ever wondered how computers control lights? This workshop will introduce the students to Arduinos, which are simple computers that we can hold on the palm of our hands. Through the creation of circuits and some programming, the students will make an automated computer that blinks LEDs in whatever patterns they choose!

**WORKSHOPS ARE ALSO  
AVAILABLE IN FRENCH!**

