

### WHAT IS A SCIENCE VENTURE WORKSHOP?

Two enthusiastic university students from the Science Venture Team join your classroom for a two-hour STEM (science, engineering or technology) workshop. These dynamic workshops are curriculum specific, and include engaging demonstrations, interactive experiments, and educational games. Our workshops ignite passion for STEM in students and provide positive university role models. Workshop sessions can be booked for either the morning (9am - 12pm) or afternoon (12pm - 3pm).

### WE ARE **actüa**

Science Venture is a 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 350,000 youth in 500 communities nationwide. Please visit Actua at [www.actua.ca](http://www.actua.ca).



## STEM WORKSHOPS (GRADES K-8)



### Exploring Matter (Kindergarten)

Key Terms: Properties of Matter, Scientific Method, Observations, Exploration, Senses

Your junior scientists will explore the scientific method in a series of fun, hand-on experiments! Students will discover the properties of matter through sorting, classification games, and pattern recognition.

### Light & Sound (Grade 1)

Key Terms: Properties of Light and Sound, Sources of Light and Sound

Discover the exciting science behind light and sound! Students will get the chance to investigate how properties can change depending on the source, and how form and function go hand-in-hand.

### Forces & Magnets (Grade 2)

Key Terms: Magnets, Magnetism, Magnetic Fields, Friction

Like the North and South poles of a magnet, students will be irresistibly drawn to this workshop! Students will explore the properties of magnets and their importance in daily life through hands-on activities, and make discoveries about friction.

### Heat Wave (Grade 3)

Key Terms: Thermal Energy, Sources of Thermal Energy, Transfer of Thermal Energy

It's getting hot in here! Find out how thermal energy can be produced and transferred, while exploring cause and effect.

### Megawatts & Marbles (Grade 4)

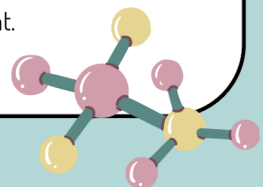
Key Terms: Energy, Power, Electricity, Demand and Load, Generator, Turbines

How does our electrical power system work, and what are the challenges of integrating different power sources into one system? In this workshop, students will answer these questions and explore the limitations and possibilities of renewable energy sources as they build their own marble-based energy grid!

### School of Rocks (Grade 5)

Key Terms: Rock Cycles, Types of Rocks, Erosion, Minerals, Crystals, Closed Material System

Rock out with this workshop! Discover how Earth materials change as they move through the rock cycle and can be used as natural resources. Students will learn about the Earth as a system, and explore how we can act as stewards of our environment.



# STEM WORKSHOPS CONT'D (GRADES K-8)

## Manny's Medical Mystery (Grade 6)

Key Terms: Urinary/Excretory System, Heterogenous Mixtures, Separations, Careers in STEM

"Peas" invite us into your classroom "pod" and help us diagnose our medical mannequin Manny! In this cross-curricular workshop, students will combine chemistry and biology in a series of diagnostic tests.

## \*NEW for 2024\* Sphero Infections (Grade 7/8)

Key Terms: Disease Transmission, Epidemiology, Block Coding, Functions

How do diseases spread in populations? Students will learn the basics of epidemiology, then they will have to work together to program their own outbreaks by coding Spheros that are infected, susceptible or immune and predict outcomes.



## HOW TO BOOK WORKSHOPS

### Step 1:

Collect the following information from interested teachers in your school using the Workshop Bookings Form.

- Teacher Name
- Workshop Topic
- Grade
- Number of Students
- Room Number

### Step 2:

Email completed form to Science Venture (svworkshops@uvic.ca). Once we receive your form, we will contact you to confirm requested dates and schedule workshops.

### Step 3:

Once workshops have been confirmed, please mail in a cheque payable to Science Venture. Online payment by credit card is also available, please indicate if you would prefer this option.

## BOOK MORE, SAVE MORE

If your school books:  
1 workshop = \$120/workshop  
2 workshops = \$110/workshop  
3+ workshops = \$100/workshop

May 13 - June 14, 2024

Don't miss out! Register early!  
(We fill up fast!)

## CONNECT WITH US

### Mailing Address:

Science Venture  
University of Victoria  
PO Box 3055  
Victoria, BC  
V8P 5C2

### Phone:

250-721-8983 (Registration/Booking Line)  
250-721-8158 (Office)

### Email:

svworkshops@uvic.ca



www.scienceventure.ca



svworkshops@uvic.ca



250-721-8983

