

Creative Encounters

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Découvrir pour demain.

2012 Classroom Workshops Have Arrived!

What is Creative Encounters?

Creative Encounters is an entirely student run, not for profit Science, Engineering and Technology program run out of the University of Guelph's School of Engineering. The main objective of the program is to provide a fun, safe, non-discriminatory and stimulating environment that inspires young people to explore their love of science in an interactive and hands-on manner.

In the months of May and June, Creative Encounters travels to deliver workshops to elementary schools in Guelph and the surrounding area. Creative Encounters also offers a variety of Science, Engineering and Technology camps for students entering grades 2-9. Additionally, we are happy to announce that our workshops are now also taught in French!

What is a Creative Encounters workshop?

A Creative Encounters workshop is a 1 or 1.5 hour (except Robotics 101 which is 3 hours) presentation delivered by a male and female University of Guelph undergraduate student to a class with a **maximum of 30 students**. Creative Encounters is offering **10 different workshop topics** in 2012.

Cost:

- \$60.00 per workshop, except Robotics 101 (\$80)

When are Creative Encounters workshops offered in 2012?

- May 10th to June 1st, and June 11th to June 15th
- We can run up to three workshops at one time and a total of 12 workshops in one day!

Workshop Times:

- Workshop slot 1: before morning recess
- Workshop slot 2: after morning recess
- Workshop slot 3: before afternoon recess
- Workshop slot 4: after afternoon recess

* Note: You will be asked to specify the times your school follows

WORKSHOP TOPICS

- ✧ Wildlife: JK-Gr. 2
- ✧ Exciting Engineering: Gr. 3-8
- ✧ Physical Wonders: JK-Gr. 8
- ✧ Wacky Weather: Gr. 2-6
- ✧ Power Hour: Gr. 6-8
- ✧ Shape Your World: JK-SK
- ✧ Out of This World: Gr. 4-6
- ✧ Head in the Clouds: Gr. 6-8
- ✧ Robotics 101: Gr. 4-8

How to Register:

At the back of this package is a registration form for our workshops and more detailed instructions on how to register!

Robotics 101 (Gr. 4-8)

Whether it is to change the TV channel remotely or quickly assemble a car, robots play a vital part in our ever-changing world. But what exactly constitutes a robot? Students in this workshop will dissect this question in detail to better understand the inner-workings of these machines. They will then apply this knowledge by building their very own Lego NXT robots from the ground up!

*note: there is a **maximum of 30 students**, due to LEGO kits. Workshop duration is 3 hours and school breaks will be accommodated.

Curriculum ties: electricity and electrical devices, systems and interactions, technology

Exciting Engineering (Gr. 3- 8)

Teamwork and problem solving are the keys to this workshop! Just like real engineers, students will team up and go through the design process necessary to complete the building challenge, all while taking into account different constraints and criteria!

Curriculum ties: forces causing movement; energy in movement; structure and function; systems in action

WILDLife (JK- Gr. 2)

Our world is full of all kinds of life. From the smallest micro-organisms to the largest mammals, each species play a vital part in the growth and proliferation of life on Earth. In this workshop, students will discover wonderful living organisms that have unique skills and tricks that allow them to adapt and survive!

Curriculum ties: Sustainability; animal structure and functions; animal behaviour.

Shape Your World (JK-SK)

Our brain does a fantastic job at sorting and interpreting information gathered by our senses. With our senses we can perceive temperature, texture, colour, sound and much more sensory data. This workshop aims to help students understand what they perceive in a very hands-on manner in order for them to actually shape the world around them using their senses.

Curriculum ties: Senses, colours, shapes, spatial orientation.

Wacky Weather (Gr. 2-6)

As we all know, it is not always rainbows and butterflies outside! Pressure systems, currents, temperature and many other factors all affect the weather. From tornadoes to typhoons, this workshop will allow students to take a peak into the eye of the storm that is meteorology

Curriculum ties: Air and water impacts; forces in nature; wave dynamics; conservation of energy; interrelated systems.



Head in the Clouds (Gr. 6-8)

Have you ever wondered how a 735,000 pound commercial airplane can soar through the air as graceful as a bird? Or how hummingbirds are able to fly in any direction and even come to a complete stop? Students taking part of this workshop will get to take a look in the complex world of aeronautics and get an inside view on what it means to actually fly!

Curriculum ties: forces causing movement; air properties; structures; forces acting on structures; flight.

Out of This World (Gr. 4-6)

What exactly lies beyond our Earth? Scientists and the general population alike have been pondering this very question for many years. This workshop aims to shed some light on what goes on in that dark zone above our sky that we call Space!

Curriculum ties: Rocks and minerals; matter; interrelated systems; conservation of energy; space.

Physical Wonders (JK- Gr.8)

Always a hit with any age group, the Physical Wonders workshop is a combination of the coolest chemical and physical science demonstrations available to classrooms. Students will learn about the different scientific phenomena they see by level-appropriate explications and real-life example of these concepts. This exciting workshop will really get the kids stoked about science!

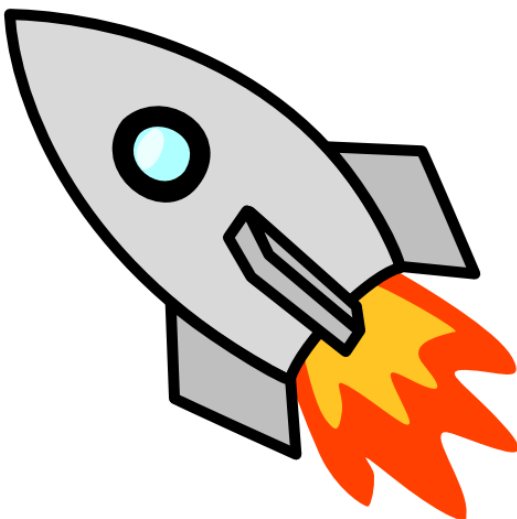
*Physical wonders can also be tailored to high school students with an in-depth look at chemical and physical processes.

Curriculum ties: energy; properties of liquids & solids; forces causing movement; conservation of energy.

Power Hour (Gr. 6-8)

When we think of circuitry, most people picture a jumble of wires, funky devices and buzzing sounds. In this workshop, students will untangle this metaphorical mess and see circuitry for what it really is! Applying electrical concepts to hands-on circuit activities will help students understand the interesting properties of electricity and make them see electronics in a whole new way!

Curriculum ties: Electrical energy; systems analysis, electricity, circuits.





Creative Encounters Workshops 2012

(If you require additional space, please duplicate this form)

How to Register:

Simply fill out the registration form and mail it to us. Once the form is received you will be contacted to confirm your requests. Shortly after confirmation, your school will be sent an invoice. There is a rolling acceptance for all workshop registrations, but **workshops should be booked at least a week in advance of the actual workshop date.**

School Name: _____

Full Address: _____
(Number & Street City Postal Code)

Phone Number: _____ Contact Person: _____
(all workshop calls directed to this person)

E-mail Address: _____ Fax: _____

Workshop Date Requested: _____

Second Choice if this date is unavailable: _____

st 1 Workshop:

Workshop Title: _____

Teacher's Name: _____

Grade Level: _____

Number of Students in Class: _____

Workshop Slot (please circle one and mark time of this period below:

1 (before morning recess) 2 (after morning recess) 3 (before afternoon recess) 4 (after afternoon recess)

Time this slot falls at: _____
(Start Time – End time*)

2nd Workshop:

Workshop Title: _____

Teacher's Name: _____

Grade Level: _____

Number of Students in Class: _____

Workshop Slot (please circle one and mark time of this period below:

1 (before morning recess) 2 (after morning recess) 3 (before afternoon recess) 4 (after afternoon recess)

Time this slot falls at: _____

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3rd Workshop:

Workshop Title: _____

Teacher's Name: _____

Grade Level: _____

Number of Students in Class: _____

Workshop Slot (please circle one and mark time of this period below:

1 (before morning recess) 2 (after morning recess) 3 (before afternoon recess) 4 (after afternoon recess)

Time this slot falls at: _____

(Start Time – End time*)

**** Please note that all workshops run for ONE (1) hour, excluding Exciting Engineering which has a duration of ONE AND A HALF (1.5) hours. Also, up to THREE (3) workshops can run simultaneously.