

Engineering For Kids

For ages 4 +

Classes | Camps | Birthdays | Workshops in Victoria
Winter and Spring 2020



Tap into your child's natural curiosity and combine learning with fun! Our programs provide age-appropriate activities and projects that connect science, technology, engineering and math to the real world with a hands-on approach.

Rooted in the Engineering Design process, our programs teach students the steps to success—Ask, Brainstorm, Design, Build, Test, Improve—developing their skills in critical thinking, problem-solving, communication and collaboration!

How to Register:

Check out our list of classes and camps below. Register by visiting our recreation partners online, in person or by phone.

Online registration codes are listed below – click on the 5-digit code beside the class of your choice to be taken to the registration page.

Locations

Our classes are hosted at facilities throughout Greater Victoria. Visit their websites by clicking on the location name in the chart below. Contact us if you'd like Engineering For Kids to come to your location!

Crystal Pool and Fitness	250-361-0732	2275 Quadra Street
Oak Bay Recreation - Neighbourhood Learning Centre	250-595-7946	2121 Cadboro Bay Road
Saanich Commonwealth	250-475-7600	4636 Elk Lake Drive
West Shore Recreation	250-478-8384	1767 Island Highway
Victoria West Community Centre	250-590-8922	521 Craigflower Road

Hands-On Building Classes

Aerospace Engineering

Using the Engineering Design Process, we'll create, test, and refine a variety of flying machines. Construct a shock absorbing system to protect your astronauts in a lunar vehicle, create your own air-powered rocket to launch into the sky, assemble a model blimp for flight, and more!

Saanich Commonwealth	8-13 years	Tue	May 19-June 23	5:30-7 pm	\$130/6 classes	29865
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Aerospace Engineering (Junior)

Kites, Rockets and more! Aerospace Engineers make so many things that fly! In this program, we will explore a variety of flying objects; what keeps them aloft, buoyant and different kinds of propulsion.

Crystal Pool	4-7 years	Wed	Jan 8-Feb 12	4-5 pm	\$120/ 6 classes	11360
Saanich Commonwealth	5-7 years	Tue	May 19-June 23	4-5 pm	\$120/6 classes	29864

LEGO + K'Nex Building + Engineering Challenge

Building with LEGO and K'Nex is not only fun, it's a great way to practice problem solving and innovative thinking. Each week, we'll explore real-world challenges that will have you thinking and building like an engineer! Children will work both independently and in teams.



Oak Bay Recreation	8-12 years	Sun	Jan 19-Mar 1 (no class Feb 16)	11-12:30 pm	\$133/ 6 classes	40504
Oak Bay Recreation	5-7 years	Sun	Jan 19-Mar 1 (no class Feb 16)	1-2 pm	\$122/ 6 classes	40506
Saanich Commonwealth	5-7 years	Tue	April 7-May 12	4-5 pm	\$120/ 6 classes	29858
Saanich Commonwealth	8-12 years	Tue	April 7-May 12	5:30-7 pm	\$130/ 6 classes	29859

Marine Engineering

We'll design, create, test, and refine several types of marine-based devices and vehicles that teach the concepts of above water transportation, underwater exploration, and harnessing the power of water!

West Shore Recreation	5-7 years	Sat	April 4-May 23	10-11 am	\$120/ 6 classes	29638
West Shore Recreation	8-12 years	Sat	April 4-May 23	11:30-1 pm	\$130/ 6 classes	29644

Mechanical Engineering

Students learn about energy, traction, aerodynamics, and durability while constructing a variety of machines and mechanical systems, including roller coasters, egg-streme defense vehicles, and an incredibly fast air-powered custom dragster

West Shore Recreation	8-12 years	Sat	Jan 25-Mar 7	11:30-1 pm	\$130/ 6 classes	29633
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Mechanical: Let's Make Toys! (Junior)

Our youngest engineers will explore and construct various toys, including magical boomerang cans, wind-up whirligigs, and more, while learning about energy, materials, and movement.

Oak Bay Recreation	5-7 years	Sun	April 5-May 24 (no class April 12, May 17)	1-2 pm	\$122/ 6 classes	63790
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Mechanical: Widgets and Gadgets (Junior)

Our youngest engineers will be introduced to the concepts of energy, materials, and movement. Students will explore and construct their own roller coasters, spinners, cars, and more!

West Shore Recreation	5-7 years	Sat	Jan 25-Mar 7	10-11 am	\$120/ 6 classes	29629
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Technology Classes

LEGO Robotics 101

Using LEGO Mindstorms EV3s and working in pairs, learn how to build and program a robot to hit a ball, navigate a track using a light sensor, sumo wrestle another robot, and more! A great introduction to the world of robotics.

Crystal Pool	8-12 years	Wed	Jan 8-Feb 12	5:30-7 pm	\$130/ 6 classes	11362
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Robotics and Coding with Spheros

Explore the exciting world of robotics using our Sphero robots and tablets! Students will learn how to program and control their Sphero and will need to use their creativity and building skills to create mazes, obstacle courses, and more for their robots to navigate through.

Oak Bay Recreation	8-13 years	Sun	April 5-May 24 (no class April 12, May 17)	11-12:30 pm	\$133/ 6 classes	63795
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Robotics and Coding with Spheros + Ozobots

Explore the exciting world of robotics and coding with our Sphero and Ozobot robots. Working independently and in pairs, learn how to program and control your robot using our tablets. Bring your creative building skills to design mazes, obstacle courses, and more for your robots to navigate through.

Saanich Commonwealth	5-7 years	Tue	Jan 21-Feb 25	4-5 pm	\$120/ 6 classes	29855
Saanich Commonwealth	8-12 years	Tue	Jan 21-Feb 25	5:30-7 pm	\$130/ 6 classes	29856
West Shore Recreation	5-7 years	Sat	May 20-June 20	10-11 am	\$80/ 4 classes	29822
West Shore Recreation	8-13 years	Sat	May 20-June 20	11:30-1 pm	\$87/ 4 classes	29823

Homeschool Classes

Aerospace Engineering

Using the Engineering Design Process, we'll create, test, and refine a variety of flying machines. Construct a shock absorbing system to protect your astronauts in a lunar vehicle, create your own air-powered rocket to launch into the sky, assemble a model blimp for flight, and more!

Saanich Commonwealth	7-14 years	Tue	April 6-May 25 (no class April 13, May 18)	10-11:30 am	\$130/6 classes	29883
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Circuits with Makey Makey

A playdough video controller? Cardboard guitar that plays actual music? Using the Makey Makey Invention Kit and Scratch programming, we'll explore simple wiring and circuitry in a fun and inventive way. Bring your creativity and imagination!

Saanich Commonwealth	7-14 years	Mon	Jan 20-Mar 2 (no class Feb 17)	10-11:30 am	\$130/ 6 classes	29882
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LEGO Robotics Mission to Mars

Using LEGO Mindstorms EV3s and working in pairs, learn how to program a robot to engage in battle from tug of wars to jousting.

Victoria West Community Centre	7-12 years	Wed	Jan 8-Feb 12	1-2:30 pm	\$130/ 6 classes	Click to visit Website
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Pro D Day + Spring Break Camps

Winter + Spring Break Camp: Minecraft

Test your ingenuity and problem-solving skills as you navigate through challenges in our virtual Minecraft worlds. Learn teamwork and how to manage resources like real-life engineers. We'll also spend part of each day crafting art, science and engineering projects with our hands and playing fun games. Week 2 of Minecraft camp (March 23-27) will spend one afternoon at the Commonwealth swimming pool.

Crystal Pool + Fitness	8-12 years	M, T, Th, F	Dec 3-Jan 3	9-4 pm	\$208/ 4 days	11358
Royal Oak Middle School	6-8 years	M-F	Mar 16-20	9-4 pm	\$260/5 days	29758
Royal Oak Middle School	8-13 years	M-F	Mar 23-27	9-4 pm	\$260/5 days	29759

Spring Break Camp: Junior Engineers - Medieval Defense

Do you have what it takes to defend your castle and maintain your family's honor? In this camp, campers will build their very own castle and then work to defend it by engineering canons and catapults. Become a knight and join us on the quest for glory and justice while exploring civil, mechanical, and marine engineering.

Henderson Recreation	5.5-8 years	M-F	Mar 23-27	1-4 pm	\$150/5 days	63845
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Pro D Day: Minecraft

Spend the day mining and crafting with us! Half the day, we'll be immersed in the virtual world of Minecraft where you'll solve engineering challenges using teamwork and ingenuity. On Feb 14 and April 27, we'll spend the afternoon in the swimming pool. On May 15 (ages 6-10), it's an afternoon of fun games and hands-on building activities.

Saanich Commonwealth	8-12 years	Fri	Feb 14	9-4 pm	\$60/ 1 day	29677
West Shore Recreation	8-12 years	Mon	April 27	9-4 pm	\$60/ 1 day	29824
Saanich Commonwealth	6-10 years	Fri	May 15	9-4 pm	\$60/ 1 day	29678