

Stimulate your students' passion for STEAM with *Future Science Leaders!*

The *FSL* after-school science enrichment program opens up the world of STEAM to secondary school students. Participants interact with experts from diverse STEAM fields (science, technology, engineering, art and design, and mathematics) and learn scientific skills through a hands-on approach. Your students will engage with the nature and process of science, unleash their creative potential and build a life-long network of like-minded peers. Through *FSL*, students are encouraged to achieve their educational goals and excel in their future endeavours.

FSL 2020–2021 dates and information

FSL programs in **Vancouver and Surrey** run Sept 2020 to May 2021:

- **Tuesdays 4pm–6pm** at Science World, Vancouver, or
- **Tuesdays 6:30pm–8:30pm** at Science World, Vancouver, or
- **Wednesdays 4:30pm–6:30pm** at the Health and Technology Innovation Hub, Surrey

Students who will be in Grades 10 or 11 in Sept 2020 can apply.

Application due date: **May 1, 2020**

For more information and to sign up for notifications, visit scienceworld.ca/futurescienceleaders

Learning outcomes

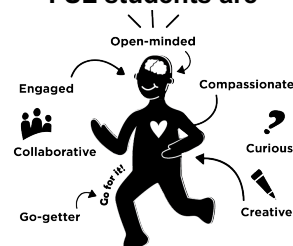
Program goals for students

- Develop and encourage their interest in STEAM careers and fields
- Deepen their understanding of the nature of science
- Practise the skills inherent to the scientific process
- Strengthen the scientific communication skills necessary to make science more relatable to the public

***FSL* makes learning fun and dynamic by**

- Taking students on field trips to businesses where employees have STEAM backgrounds
- Introducing students to experts from diverse STEAM fields, whom they can interact with
- Creating a lifelong network of like-minded peers
- Developing students' skills, such as:
 - Keeping records in a lab notebook
 - Researching reliable information
 - Presenting data in a meaningful manner
 - Writing proposals and designing an experiment
 - Visually and verbally communicating projects as scientific posters
 - Reading a scientific journal article efficiently
 - Communicating scientific ideas to the public through blogging

FSL students are



Curriculum links

- **Core competencies:**
 - Communication
 - Critical thinking
- **Curricular competencies:**
 - Communicating
 - Evaluating
 - Process and analyzing data and information
 - Planning and conducting
 - Questioning and predicting

For more information please contact: fsinfo@scienceworld.ca

FSL alumni testimonial

Megan Nantel, *FSL* 2012, applied physics graduate student at Stanford

"I loved *FSL* because of the opportunities I gained and the people I met. Every week was new, exciting and definitely something to look forward to. Coming in to sessions was often the highlight of my week. *FSL* has definitely changed my career goals in exciting ways because when it came to my future job, I was clueless (like most grade 11 students!). Because of the support from *FSL*, I did a science fair project which taught me a lot about myself and my interests. I learned about a whole new world of science that I had never considered before. I'm not set on one exact career now either, but I am definitely more open to different science pathways!"

Current *FSL* student profile

Angela Hu, Coquitlam

"Recently, I read about how scientists have developed a new material that is a super strong and reversible adhesive—similar to snail secretion! This made me think about how many other innovations that don't currently exist are possible to create by studying how animals work."

Staff highlights

Hebah Hussaina, Surrey Coordinator

"My favorite part of *FSL* is the students! The way that *FSL* works is continual sharing of knowledge—even though we work to deliver the scientific reasoning sessions and the fellows sessions, the students come from such diverse backgrounds, bringing new perspectives, that I reciprocally learn from them, and they inspire me to continue to learn!"

Parent testimonial

Lynn, parent of an *FSL* student

"She is creative and curious in an environment that allows her to continually ask questions and that's been wonderful."

Maria Roth, parent of an *FSL* student

"Our son's *FSL* year was an incredible year of learning and discovery. He enjoyed being part of a community of like-minded peers that met weekly, and he was able to develop his knowledge and understanding in different areas of science, as well as important skills for scientific thinking and communications. An unexpected result came from the bi-weekly blog post, a regular, short assignment which resulted in a substantial gain in our son's writing abilities. Listening, problem-solving, critical thinking, curiosity—so many things were nurtured and developed over his year at *FSL* with Jenny, Catherine and the other wonderful *FSL* mentors/teachers. He came out of the year confident in his own abilities within his group of peers, and highly motivated to continue on in science and technology."