

# Facilitating STEM Adventures

## Program Facilitation

### DESCRIPTION

It is Scouts Canada's mission to help youth develop into well-rounded individuals better prepared for success in the world. In today's world, more than ever before, this requires some basic literacy, self-confidence and curiosity in the STEM fields (Science, Technology, Engineering and Math). More importantly, STEM can be used as a powerful tool to help youth gain necessary 21<sup>st</sup> century skills such as critical thinking, problem solving, environmental and technology literacy, and collaboration.

To this end, we have a diverse and hands-on STEM program that aims to foster curiosity, nurture interest, increase self-confidence and break stereotypes around STEM and provide youth with exciting learning opportunities.

### LEARNING OBJECTIVES

**I can facilitate a youth-led STEM activity that allows youth to take charge in the design and implementation of the product, process or the experiment.**

- I can explain how STEM fits into The Canadian Path.
- I can explain how the Plan-Do-Review cycle parallels the design and inquiry processes in STEM.
- I have facilitated two STEM activities with my Section.
- I have completed the eLearning course "What is STEM?" or participated in a Scouts Canada STEM presentation or workshop.
- I can describe the resources that are available through the Scouts Canada STEM program.
- I can identify STEM organizations in my area that I can use to complement the program.

### TIPS AND TRICKS

- You can find STEM Trail Cards for Beaver Scouts, Cub Scouts, Scouts and Venturer Scouts on [ScoutingLife.ca](http://ScoutingLife.ca).
- Rover Scouts can create their own STEM adventures or help implement STEM activities with other Sections.

I DON'T  
KNOW...

I KNOW...

I CAN...

I HAVE...

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### PLAN

- How can you incorporate STEM adventures that align with youth's interests?
- How can you use STEM to complement and improve your Scouting program?
- How can you use Scouts Canada's STEM resources to better integrate STEM into The Canadian Path?

### DO

- Complete the eLearning course "What is STEM?".
- Attend a STEM workshop in your area. If you cannot find any, gather some Scouters and send a request to [stem@scouts.ca](mailto:stem@scouts.ca).

- Review some of the **STEM Trail Cards** on the Canadian Path website.
- Invite youth to decide what STEM adventures your Section will do.
- Invite a STEM expert (e.g. a Rover, a parent or another Scouter) to help you with the first activities.

### REVIEW

- How can STEM improve youth's Scouting experience on The Canadian Path?
- How have you ensured that STEM adventures are youth-led?

### SAFETY NOTE

- Always discuss safety issues with youth and other Scouters before the adventure.
- If you are not sure about something, ask an expert.

### ONLINE RESOURCES

- **The Scouter Manual pages 85–88**
- eLearning course: What is STEM?
- **Scouts Canada's STEM website**
- **STEM Scouters' Tip**