



# STEM | Science | Technology Engineering | Mathematics

## SCOUT CANADA'S 2017 CANADIAN INVENTIONS COMPETITION

### Attention all Scouts:

Are you already dreaming about CJ'17 in Nova Scotia? Do you enjoy doing exciting hands-on STEM projects?

If you answered yes, then **The Scouts Canada STEM Next Great Invention Competition** is for you! This is an excellent opportunity for you to put your STEM-related knowledge and skills to work, solve a problem and win \$1500 towards your trip to CJ'17 at **Camp Nedooae in July 2017!**

**What do you need to do?** Use STEM (Science, Technology, Engineering and Mathematics) to come up with a new product or process to solve a problem that you consider important or to do something fun! You can either develop an improvement on an existing Canadian invention or come up with something completely new.

**Who is eligible to participate?** All Scouts who will be attending the 13th Canadian Jamboree at Camp Nedooae in July 2017 and all Venturer Scouts and Rover Scouts who will be attending as Offer of Service are eligible to participate. You can create a project independently or as a group; prize money will be shared between team members.

### Important Dates:

**January 8, 2017 – Submit your proposal!**

Submit a written proposal by using the available proposal form and tell us a bit about your project, what does it do, what elements of STEM are involved and how it relates to current STEM research and other projects.

**February 28, 2017 – Submit your final project!**

Send us a video showing off your project. What problem does it solve? How did you create it? Show us your project in action. Your project will be judged based on connection to STEM, relevance to the outdoors, creativity and innovation, and inquiry and problem solving. Each area should be addressed in your video submission. Videos can be sent to [stem@scouts.ca](mailto:stem@scouts.ca) with "STEM Competition Submission – [name]" in the subject line. Larger files can be shared with [stem@scouts.ca](mailto:stem@scouts.ca) via DropBox.

**March 27 (contacted) and April 7 (ScoutScene) – Winners announced!**

Winners will be contacted and then announced via social media, our website and in ScoutScene.

**April 2017 – Presentation of awards**

Awards will be presented at local council events.

**How do you participate?** Find the instructions and download the submission form on the STEM website ([Scoutinglife.ca/canadianpath/about/stem](http://Scoutinglife.ca/canadianpath/about/stem))

**How will the projects be evaluated?** A judging panel consisting of youth members and Scouters will evaluate the projects based on the rubric on the next page.





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Criteria	1	2	3
<b>Youth-Led</b>  How did your Scouters or another adult help with your project?	Scouters/adults provided a lot of guidance and support. This includes offering knowledge and ideas, and providing access to materials or tools.	Scouters/adults provided some guidance and support. This could include access to materials or tools.	Scouters/adults provided minimal guidance and support.
<b>Plan Do Review</b>  How did you move through Plan-Do-Review to arrive at your final project?	Rushed, incomplete or unclear planning process. Little to no review of challenges, successes or failures. No iterations or prototypes leading to final project.	Some consideration of planning and review processes to inform one or two iterations of the project. Some prototyping attempts leading to the final project.	Deliberate planning and thoughtful review inform a number of different iterations and prototypes before arriving at the final project.
<b>SPICES</b>  How did you grow in the SPICES through the process of developing your project?	Youth is/are aware of how they developed in one or two of the SPICES through their project.	Youth is/are aware of how they developed in three or four of the SPICES through their project.	Youth is/are aware of how they developed in five or six of the SPICES through their project.
<b>Adventure</b>  How does your project represent a novel approach to a problem?	The project is a duplication or small variation on an existing solution to the problem.	The project presents an update on an existing piece of technology to offer a better solution to the problem.	This project presents a novel solution to a new or poorly understood problem.
<b>Product or Demonstration</b>  How does the presented product or prototype represent your solution?	Aspects of the solution have been tried and prototyped, but a complete unit with final parts does not exist.	A working prototype exists and all aspects of the solution have been tried. Any deficiencies have been identified.	A full prototype exists. All aspects of the solution have been tried and tested. Minor deficiencies may exist, but are identified with solutions.

\*\* reward using more homemade components than ready-made kit parts.