STEM | Science | Technology Engineering | Mathematics

2016-17 STEM + GREAT CANADIAN INVENTION COMPETITION PROPOSAL FORM

Deadline for Submission: January 8th, 2016

Please email to stem@scouts.ca with "STEM Competition Proposal – Name" in the subject line. (the evaluation criteria is on the back)

Project Title:

Name(s):	Email (s):
Council:	Address (one contact person if this is a group project):
Group:	

Brief description of the project:

What do you plan to invent? Or how do you plan top improve on a Canadian invention?

How does your project relate to STEM (Science, Technology, Engineering, and Mathematics)?

How does your project relate to the larger body of knowledge and technology in its field?

STEM
Science | Technology
Engineering | Mathematics

Criteria	1	2	3
Youth-Led 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.
Plan Do Review 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.
SPICES 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.
Adventure 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.
Product or Demonstration 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.