

INDUSTRIAL SECTOR - WELDING - POPSICLE STICK PLAYGROUNDS

CHALLENGE

Women Pioneers in Industrial!

During the Second World War, hundreds of thousands of women answered the call and took over essential jobs in Canadian and US industries to produce desperately needed war material. These women, who at one point accounted for over 65% of the entire US aircraft industry, were known as “Rosie the Riveter,” and became an enduring symbol of the sacrifices and contributions women made during the war.

One of the most important tasks they took on was welding, which is the joining of metals. Here’s your chance to be a “Rosie the Riveter,” and “weld” together popsicle sticks using a hot glue gun to create your favourite playground equipment! The challenge is simple: create a plan, and then put it into action by creating as many pieces of playground equipment as you like!

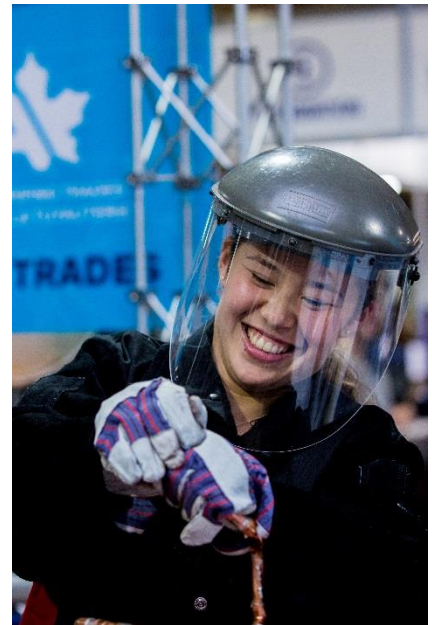
What is Welding?

Welding is the most economical and efficient way to join metals permanently. It is the only way of joining two or more pieces of metal to make them act as a single piece. Welding is vital to our economy as welders are employed in many industries like aerospace, auto repair, military support, construction, etc.

Related Skilled Trades: Welding, metal fabrication

Relevant Skills: Planning and design, creativity and organization

[Click here for a full list of all recognized Ontario skilled trades](#)

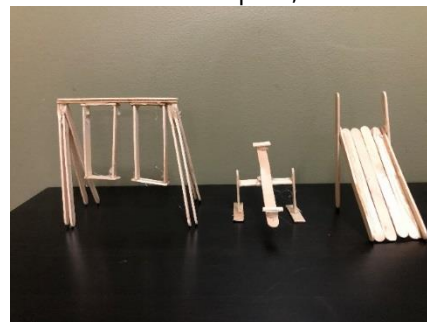


CHALLENGE MATERIALS

- Popsicle sticks
- String
- Scissors
- Hot glue gun (have a parent/guardian assist you)

RULES

1. You must create a design plan before you get started. The more detailed the plan, the better.
2. The main structure must be composed only of the materials outlined above. You are free to decorate your equipment using other material if you like.
3. **You will need to highlight what you as a girl can do and why girls ROCK! See full submission requirements below.**



SCORING/JUDGING

There are **AMAZING** prizes to be won and **EACH CHALLENGE** has first, second, and third place prizes!

See website for more details!

Submissions will be marked in the following:

Structures	Points
At least one basic structure completed.	0 - 5 points
At least one basic structure completed. Structure is neat and well put-together.	6 - 10 points
Multiple structures that are neat and well-put together.	11 - 15 points
Multiple structures that are neat and well-put together. Structures are decorated appropriately and creatively designed.	16 - 20 points
Total Marks (Total out of 20)	

****REMEMBER, you will need to highlight what you as a girl can do and why girls ROCK!****

Design Plans	Points
No Plan was provided	0 - 5 points
Challenger had plans, Detailed/plans matched final product.	6 - 10 points
Plans were to scale. Detailed/plans matched final product. Lines are neat and clean.	11 - 15 points
Plans were to scale with measurements outlined. Detailed/plans matched final product. Lines are neat and clean.	16 - 20 points
Total Marks (Total out of 20)	

Challenger Total Marks: / 40 points

Submission

Submissions could be videos and/or pictures of your project. **You will need to highlight what you as a girl can do and why girls rock!** This can be done in either voice recordings within a video, or through a written document that is photographed with your project.

Submissions are to be posted on Twitter between October 4th – 8th. Tag @skillsontario and use the hashtag **#SkillsIDG2021**. If you do not have Twitter, or are uncomfortable posting, please email your submission to info@skillsontario.com.

Skills Ontario will directly message winners on Twitter to let them know they won. If you choose to email your submission, we will reach you through the address you contacted us with. Winners will be publicly announced on **October 17th** on Twitter.