

# CONSTRUCTION SECTOR - CARPENTRY - POPSICLE STICK HOUSES

## CHALLENGE

### A Woman in Construction: Meet Marion Mahony Griffin

Marion was one of the world's earliest licensed female architects who received her training at MIT, graduating in 1894. A year later, she was employed by Frank Lloyd Wright where she was a big influence on Prairie Style Architecture. Some of her credits include the David Amberg Residence and the Adolph Mueller Residence.



### What is Carpentry?

A carpenter is someone who builds, maintains and repairs structures that are made out of wood or other materials. Carpenters must be able to build foundations, install walls and roofing systems, measure and cut materials made of out of wood (or similar material), prepare estimates for clients, as well as be able to read and interpret blueprints created by architects or structural engineers.

Your challenge is to combine design and building to create a house out of popsicle sticks. Create a sketch of your house and then build it to a tee!

**Related Skills Ontario Contests:** Architectural Technology and Design, Carpentry [Individual/Team], Construction (7-8), Home and Team Building

**Relevant Skills:** Planning and design, creativity, attention to detail and organization

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

## CHALLENGE MATERIALS

- Pencil and paper
- Popsicle sticks
- Scissors
- Hot glue gun (have a teacher/parent/guardian assist you) or white glue
- Embellishments (markers, flower stickers, gems, glitter, etc.)

## RULES

1. You must create your design on paper first. Include measurements, and any decorations you plan on using (e.g. flower boxes on the windows).
2. The house must be built using the materials outlined above. You are free to decorate your house using other materials if you like.
3. You will need to highlight what other skilled trade careers are used in the building of a house [identify at least 3]
4. **You will need to highlight what empowers you or how you empower others. See full submission details 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 using the following:

Structures	Points
Popsicle House is completed. No additional skilled trade careers identified.	0 - 5 points
Popsicle House is neatly and well put-together. Some embellishments added. At least 1-2 skilled trade careers identified.	6 - 10 points
Popsicle House is neatly and well put-together using a creative design and a variety of embellishments. 3 skilled trade careers identified.	11 - 15 points
Popsicle House is neatly and well put-together using an intricate design and a lot of embellishments. 4 or more skilled trade careers identified.	16 - 20 points
<b>Total Marks (Total out of 20)</b>	

**\*\*REMEMBER: You will need to highlight what you empowers you or how you empower others!\*\***

Design Plans	Points
No Plan was provided.	0 - 5 points
Basic plan was provided, but with limited details.	6 - 10 points
A creative plan was provided, with some measurements and details included. Plan was neatly drawn.	11 - 15 points
A creative and intricate plan was provided, with all measurements included. Plan was neatly drawn. Final product matched the design plan.	16 - 20 points
<b>Total Marks (Total out of 20)</b>	

**Challenger Total Marks: / 40 points**

## Submission

Submissions could be videos and/or pictures of your project. **You will need to highlight what empowers you or how you empower others!** 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 September 21st – October 11th. Tag **@skillsontario** and **@SkillsYWI** and use the hashtag **#SkillsIDG2022**. If you do not have Twitter, or are uncomfortable posting, please email your submission to [lchester@skillsontario.com](mailto:lchester@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 21st** on Twitter.