



JL BOCES MakerSpace

Craft Stick Bridge



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Description of Project

This is a great project for future builders. Students can experiment to see how to build the strongest structure possible. This can be a MakerSpace project that ties into STEM curriculum.

Materials Needed

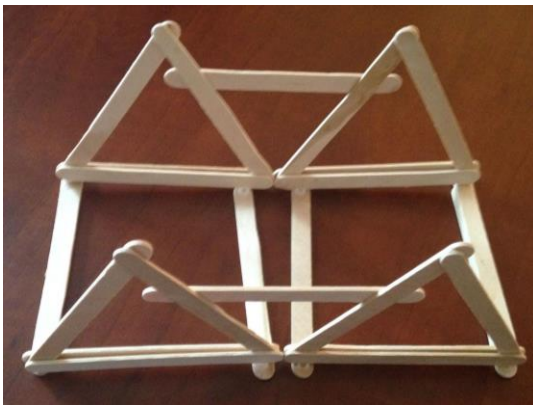
1. Craft Sticks

2. Glue
3. Books to use as weight

Steps

1. Provide students with materials and a starting and ending point for the bridge
2. Allow students to be creative and build their bridge
3. This a way for students learn by experimenting and trying things out!

Finished Project



Tips and Suggestions

1. Triangles are stronger
2. More sticks do not always create a stronger bridge
3. Allow enough time for the glue to dry before testing the bridge

Extension Projects

1. Paper structure challenge
2. Bridge building with straws

3. Marshmallow launcher: <http://www.diynetwork.com/how-to/make-and-decorate/crafts/how-to-make-a-toy-marshmallow-catapult>
4. Lesson- <https://www.teachingchannel.org/videos/bridge-building-lesson-plan>