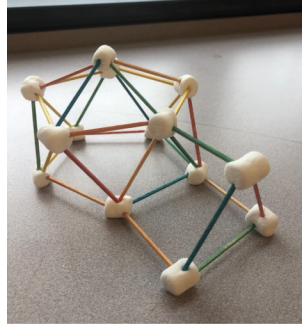


STEM Kit!
Compliments of Fairport Robotics!

This month's kit:

Marshmallow Igloo!



In this kit, you will make a marshmallow igloo using the enclosed supplies!

WARNING: Do not eat your marshmallows!!! They are not sanitary!!!

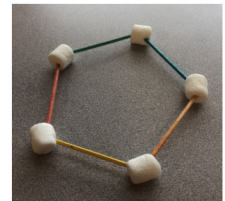
Materials:

- Marshmallows
- Toothpicks

These instructions are for building an igloo, but you can really build anything you want!! If you'd like, build the igloo then take it apart and make something else.

Directions:

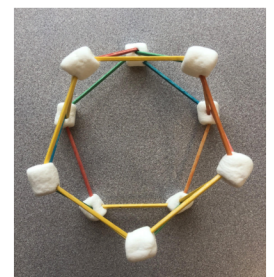
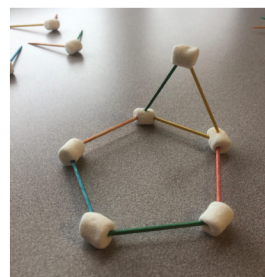
1. First build your base using 5 marshmallows and 5 toothpicks. This shape is called a pentagon.



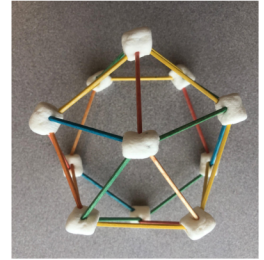
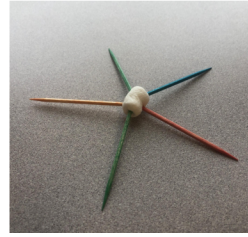
2. Make 5 V-shapes, each with 1 marshmallow and 2 toothpicks as shown.



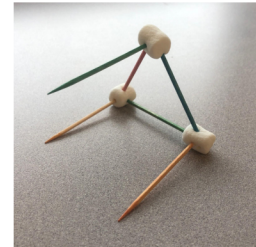
3. Attach each V-shape to your pentagon like the one in the picture to the left. Then, connect each of the 5 marshmallows at the top of the triangles with 5 toothpicks to form another pentagon. The result should look like the picture on the right.



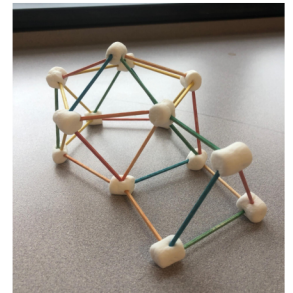
4. Make a 5-pointed star with 1 marshmallow and 5 toothpicks. Then, attach the star to the top pentagon of your igloo as shown.



5. Using 3 marshmallows and 6 toothpicks, build the structure pictured to the right- make a triangle, then poke the remaining 3 toothpicks through the marshmallows so they point outwards.



6. Attach the structure you made in step 5 to the main body of your igloo by poking the 3 toothpicks through one of the triangles on the side of your prism. Voilà! Your igloo is complete. Admire it proudly!



Other fun stuff!-

**-Challenge yourself to build a bridge with just your marshmallows and toothpicks.
Or go crazy and try building the tallest tower you can!**

How does this relate to STEM?

The igloo you just built is your first step in engineering. It's a simple design, but the strength of the marshmallow joints allow for much more complex builds that rely on physics to stand. The sky's the limit!

If you enjoyed this STEM activity and love to be creative, consider joining a Fairport FIRST Lego League team or Fairport Robotics Team 578, Red Raider Robotics! For more information, email us at info@fairportrobotics.org!

Stay tuned for a new STEM activity next month!