

STEM Ferris Wheel Instructions

Step 1: Arrange three popsicle sticks (or six for a larger wheel, two to a side) into a triangle. Then using tape or hot glue, secure all triangle points together.



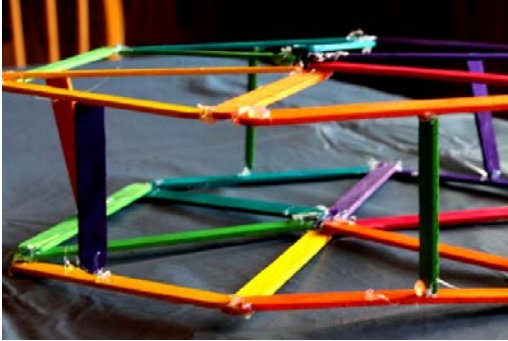
Step 2: Glue the ends of each Popsicle stick together, securing the three points of your triangle, and allow time to dry.



Step 3: Attach two more sticks to the first triangle. The two new sticks need to be glued to the corners of one side of the triangle. Two more sticks are glued to that triangle. Each new triangle should share a side with the previous triangle. Leave a gap at the center of your wheel, where the spokes meet up. Continue until your triangles meet up with the other side of the first triangle and you have created a wheel. Make a second wheel in the same manner.



Step 4: Break Popsicle sticks in half and attach them to the two wheels as cross bars. You will need to break half the number of Popsicle sticks as you have sides to your wheels as these sticks are to be spaced evenly in the same intervals as your triangles. For example, if your wheels have six sides, you will need three Popsicle sticks for this step.



Step 5: Construct two large triangles for the base. Use at least one more stick per triangle side than you used for your wheels. Allow one corner of these triangles to meet further down from the tip of the Popsicle sticks, creating an "X" at the top.



Step 6: Attach your two base triangles together by gluing two sticks to the insides of the bottom two corners of both triangles and two more to the outside sides, about halfway down from the top intersection. You want these braces to be far enough down so they won't get in the way of the wheel itself.



Step 7: Unfold the paper clip, place it through the two wheels and rest the paper clip's ends in the crook of the base triangles.



Tips:

- If available, hot glue will secure the structure best.
- Post your creation for us to see on Facebook! Tag @TecumsehRecreationServices