



JANUARY '23

15-MINUTE FAMILY STEAM:

IGLOO ENGINEER



Supplies Provided:

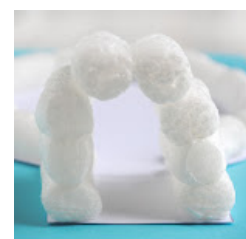
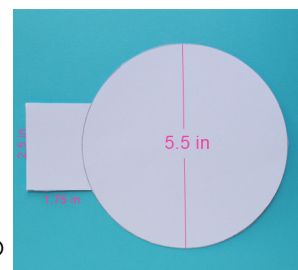
Biodegradable Packing Peanuts
Thin Cardboard

Supplies Needed From Home:

Water

Taken in part from zakkalife.blogspot.com/2012/11/kid-craft-packing-peanut-igloo

1. In this project, the packing peanuts are biodegradable so no glue is required.
2. To make the base for your igloo, trace a 5.5 inch circle on cardboard. Add a rectangle to the circle. Cut out your base
3. Dip the packing peanuts in water and adhere them to the base. The water will make the peanuts sticky. Only get the side of the peanut wet that's going to stick to something, just like you would with glue. You only need a little bit of water. Using too much will cause the peanuts to dissolve.
4. For the opening of the igloo, stack three peanuts on each side directly on top of each other. Then add two peanuts in the center to make an arch shape.
5. Add two more layers directly on top of each other around the circle. of the igloo.
6. Now you're going to make the top of the igloo arch. For the next layer, line the circle as before but have the peanuts closer to the inside of the circle. Do this with two more layers. For the top, add as many peanuts as you need to fill the hole. You can also cut the peanuts with scissors if you need them to be smaller.



The Science:

Biodegradable packing peanuts are made from naturally derived starches like wheat and cornstarch. Starch gets sticky when it is wet (think about cooked pasta) which is why the packing peanuts stick together. Entirely plant-based, biodegradable packing peanuts will dissolve in water

An igloo is a shelter made from blocks of snow placed on top of each other, often in the shape of a dome (like half of a hollow ball). They were sometimes used in winter as temporary shelters by hunters when they were away from their regular homes. The igloo is a dome that can be raised out of independent blocks leaning on each other and polished to fit without an additional supporting structure during construction. An igloo that is built correctly will support the weight of a person standing on the roof.



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