



MY ARCHITECTURE WORKSHOPS  
POPSICLE  
STICK HI-RISE  
BUILDINGS



# POPSICLE STICK HI-RISE BUILDINGS

## Highlights

Did you know you can use popsicle sticks to build a model of a high-rise building? Popsicle sticks are great for showing how the structure of a building works. By stacking the sticks in different ways, you can create the floors and walls of the building. If you make sure to put the sticks in a grid pattern, like the way real buildings have beams and columns, it will help the building stay strong and balanced.

When you use popsicle sticks to build a high-rise, you can also learn about stability. High-rise buildings need to be able to handle wind and other forces, so architects design them with special features to keep them steady. By using popsicle sticks to make different shapes—like triangles or squares—you can see how adding shapes makes the building more stable.

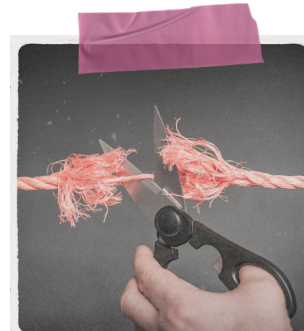


## Materials

- White Glue or Glue Gun
- Popsicle sticks
- Cardboard
- Box cutters
- Strong scissors



*Have an adult help you with the box cutter and the glue gun. Never use either without an adult present!*



# POPSICLE STICK HI-RISE BUILDINGS

## Instructions



### Step 1:

Cut a base for your skyscraper from the cardboard using the box cutter. The base should be at least 12 inches long on each side so you have plenty of room to work with.



### Step 2:

Create a base for your skyscraper. Using the scissors cut the round tip off of at least 8 popsicle sticks. Glue the sticks end to end and laying flat on the cardboard in a square shape. This will give you a base to glue more popsicle sticks together.



### Step 3:

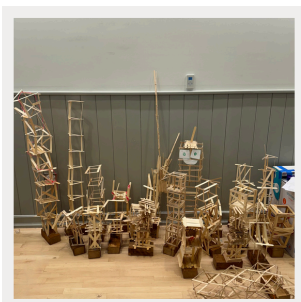
Cut the round tips off the end more popsicle sticks and glue the cut ends to the outside of the sticks that you just glued down as your base. This is when you can be creative so glue as many as you want!

To make your skyscraper strong, add some vertical support beams. Cut a few popsicle sticks to the size you want and glue them standing up in the corners of your building. These will act like the "columns" that hold everything together.



### Step 4:

Build the top of the first floor of your skyscraper. Lay popsicle sticks to the top of the support sticks you just glued to your base. These will serve as the base of your next floor! If you want, you can skip this step and glue more sticks to the end of the vertical sticks you have already glued. to make your skyscraper's first floor even taller!



### Step 5:

To make your skyscraper strong, add some vertical support beams. Cut a few popsicle sticks to the size you want and glue them standing up in the corners of your building. These will act like the "columns" that hold everything together. Finally, to finish your skyscraper, glue a popsicle stick flat on top of the highest floor to make the roof. Let the glue dry completely before showing off your tall, amazing skyscraper!

