Rubber Band Car

Materials

3 popsicle sticks (or wooden dowels)
1 drinking straw
1 bamboo skewer (or wooden dowels)
4 wheels (milk caps, pop caps, cut out circles, washers, be creative)
1 rubber band

Hot glue, glue dots, or tape
Scissors and or craft knife
Sandpaper (optional)

Prepare Materials

1. Measure and cut
   a. 2-3.5” axles from bamboo skewer, 1” piece for rubber band holder
   b. Cut one of the popsicle sticks in half

2. Optional – sand wooden pieces
3. Cut the straw into three pieces: 2.5”, 1”, 1”

4. Punch/cut holes through the center of your wheels. Holes should match the diameter of your skewer/dowel.

Start Building

1. Build the chassis
   a. Glue or tape cross pieces at 1” and 3” (or experiment with your design)
   b. Glue or tape straws to the ends, as shown.
2. Assemble the axles
   a. Glue or tape one wheel to each axle (skewer or dowel).

   ![Assembled axles with wheels](image)

   b. Slide axles through the straws and attach the wheels on the other side.

   ![Axles in straws](image)

   c. Glue the 1” piece of skewer (you can also use a toothpick or piece of wire/paperclip, etc.) between the small straws, perpendicular to the axle.

   ![Glued skewer between straws](image)

3. Give it power!
   a. Tie the rubber band to the rear axle by folding the rubber band around the cross-bar and sliding one end through the other. Pull snuggly.
b. Hook the rubber band around the small skewer on the opposite axle.

c. Twist the rubber band around the axle, set the car down, and let it go!

Try building your car with different shapes and materials. Decorate your car. Race your family members. Set a distance and try to reach it. Have fun!