

Lesson 1 Engineering

Watch: What's an Engineer? Crash Course Kids

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Making: Simple Sail Car - Yours will be smaller than this version



Materials:

Wheels, craft sticks, craft cubes, 1/8" dowels, straws, paper, hot glue gun, hot glue sticks, tape

Step 1 Frame

The frame can be any size or shape. You can use your imagination. The lighter the frame though is better, because it will move easier and quicker. The wheels are made by inserting a skewer into a straw. Then fitting the wheels on the ends. The straw is taped and glued to the frame.

Step 2 Sail Supports

Experiment with the position and size of the sail. It is best to keep it simple. Use craft cubes to support the vertical sticks.

Step 3 Designing the Sail

Most importantly the sail. Make a sail by folding a piece of paper in half lengthwise. Fold the crease in the center to create a triangular shape. The pointed sail will better help reduce the drag by parting the air as it moves forward. It also has a large opening in the back that will easily catch the air.

Step 4

Have fun playing with your car. You can use a fan to propel your car faster.