

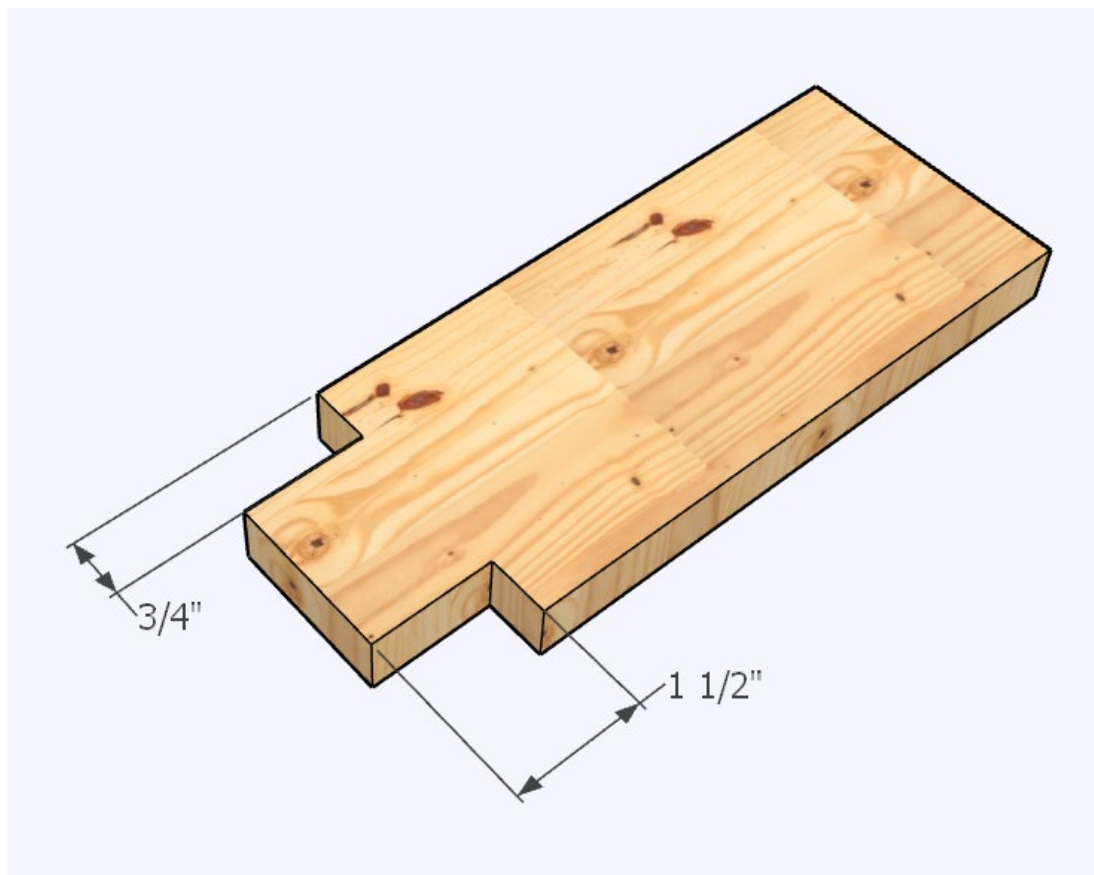
# Build a Catapult

Looking for a fun project to build with kids? This is it. It's easy to make and the kiddos will have a blast having marshmallow wars when their catapult is complete.

### Cut list

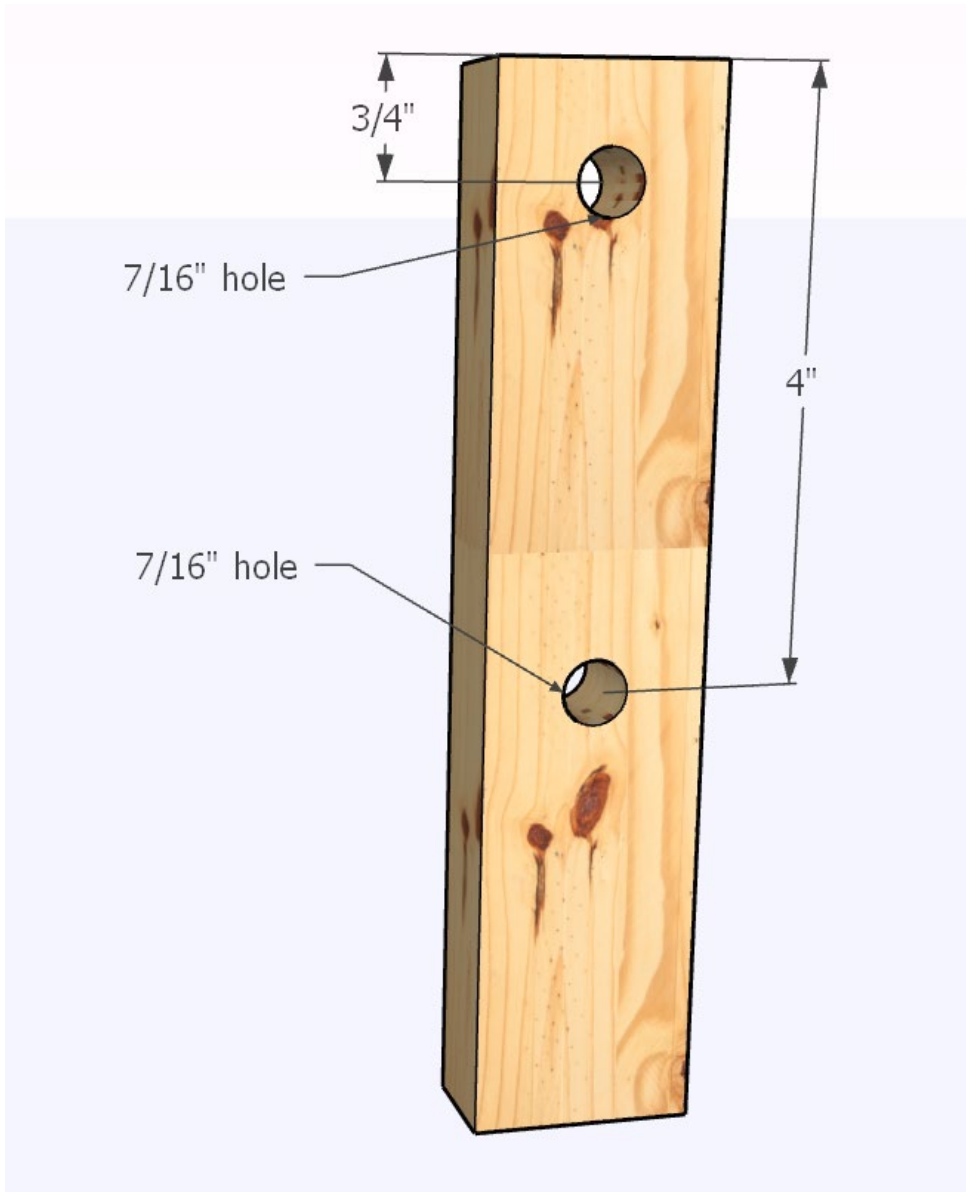
The catapult can be built from a few pieces of commonly available 1x2 and 1x4 material.

Quant	Part	Dimensions	Notes
1	Base	$\frac{3}{4}$ " x 3-1/2" x 9"	Cut notches for uprights
2	Uprights	$\frac{3}{4}$ " x 1-1/2" x 7"	Drill two holes for dowels
1	Arm	$\frac{3}{4}$ " x 1-1/2" x 13"	Drill for marshmallow cup
2	Dowels	$\frac{3}{8}$ " x 4-1/2"	
2	Heavy duty rubber bands		



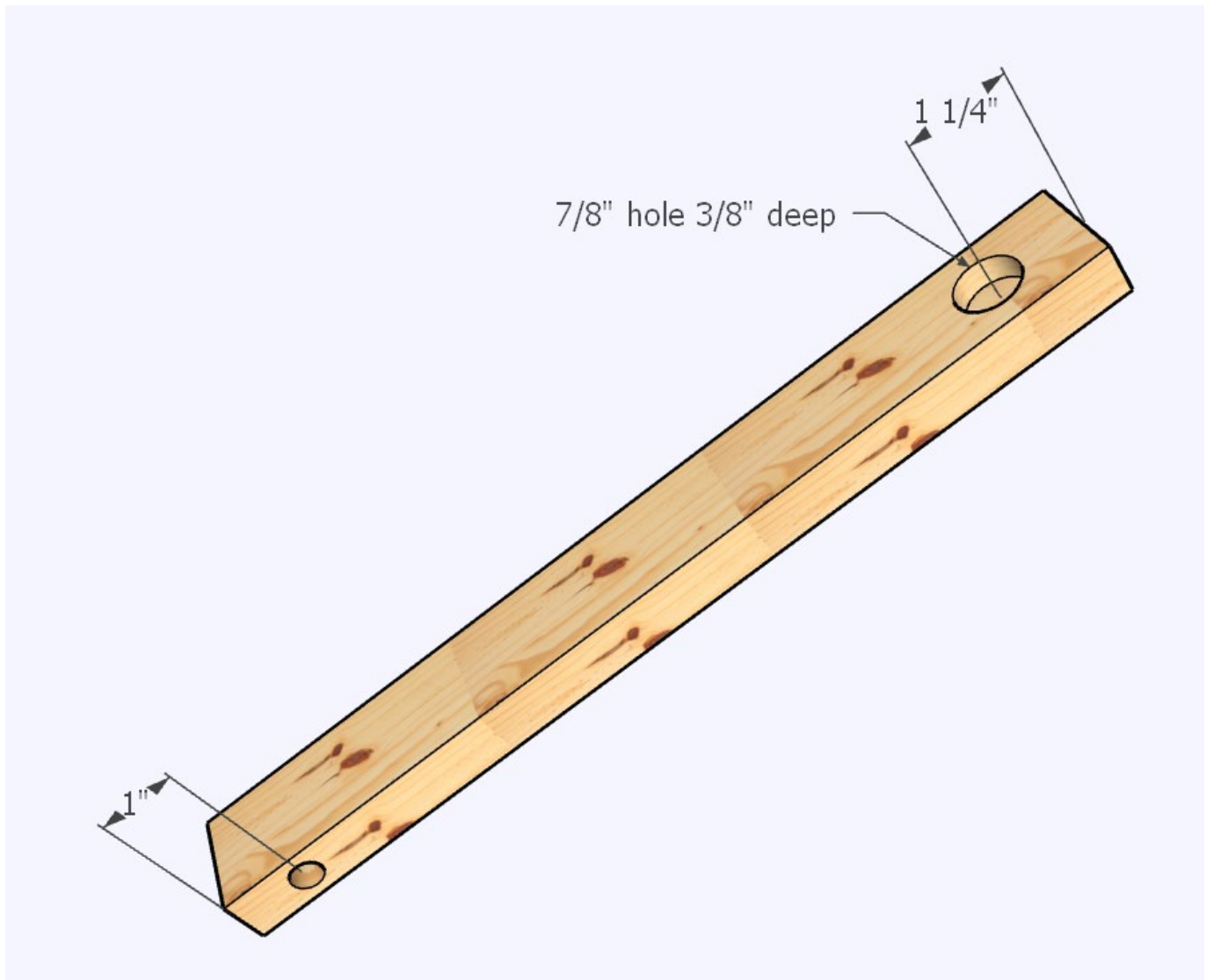
Cut notches or shoulders in the base for the uprights to fit into. When you assemble the catapult use glue, brads and, if necessary, screws, to secure the uprights to the base.

### Drill the uprights



The uprights get two holes, both are 7/16" diameter. The holes are centered on the width of the uprights and the dimensions given to locate the holes relative to the end are to the center of each hole.

## Make the arm



The arm requires two holes. The dowel hole is 7/16" diameter and goes all the way through. The marshmallow cup is counterbored 3/8" deep.

Sand all the pieces prior to assembly. Pay special attention to sanding off the sharp corners to make them easier on fingers and to prevent the corners from wearing through the rubber bands.

*Drawn by George Vondriska*

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