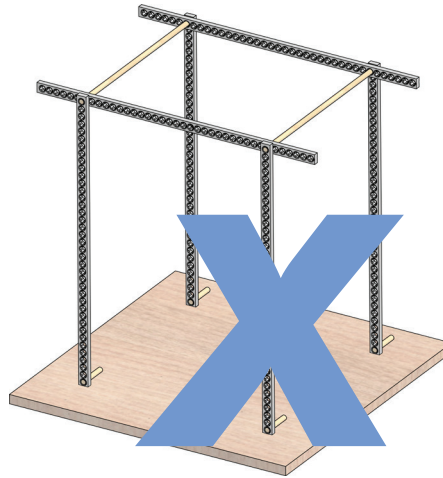


# CRAZY CONTRAPTIONS STANDARD FRAME BUILD GUIDE



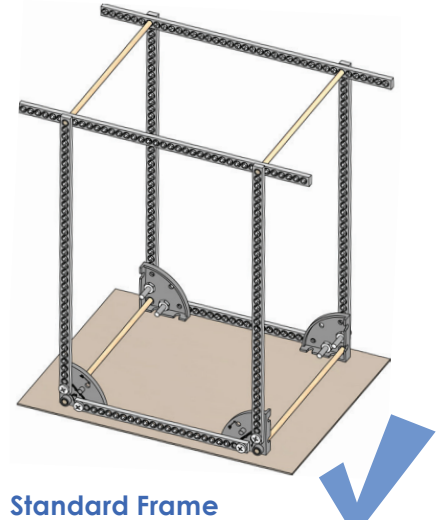
Every **Crazy Contraption's** mechanisms needs a frame. Don't have a wooden base? Then this guide is just for you! Use TeacherGeek components to build this **Standard Frame**.



## On-Wood Frame

This frame needs a wooden base. Find the build guide and parts at: [teachergeek.com/learn](http://teachergeek.com/learn)

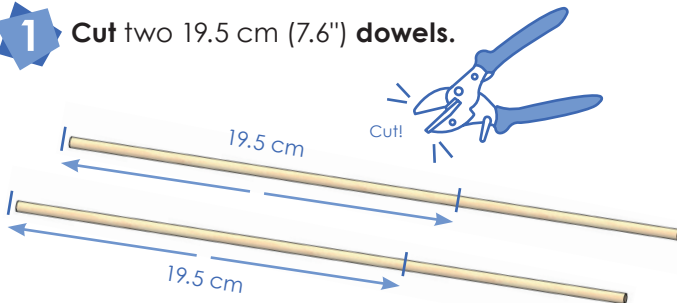
or



## Standard Frame

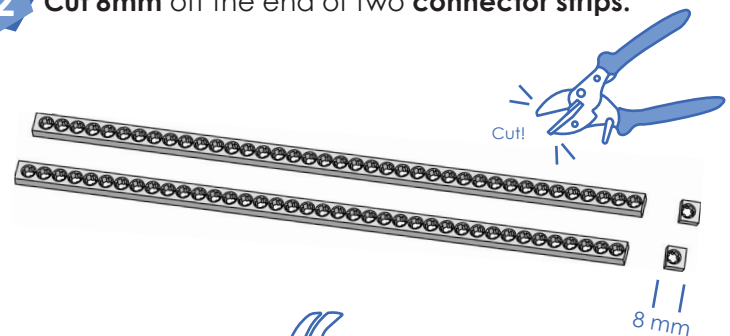
Don't have a wooden base? **Great!** This build is just for you.

- 1** Cut two 19.5 cm (7.6") dowels.

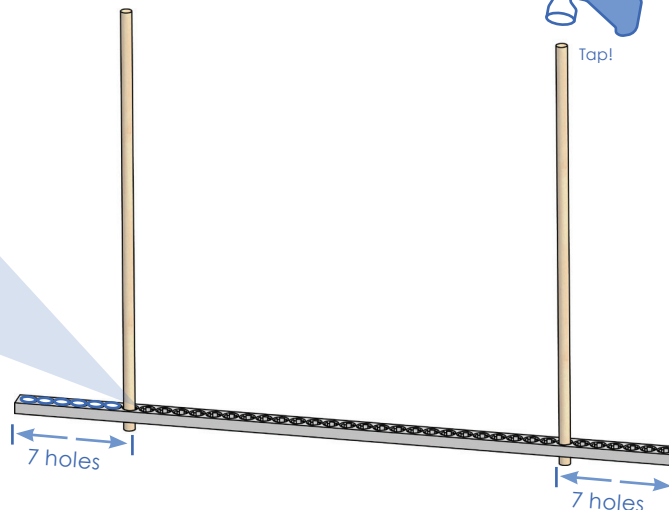
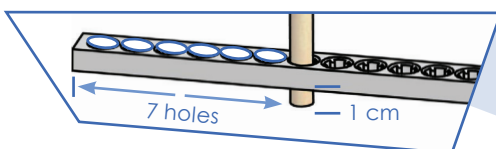


**Tip:** Save extra dowel pieces to use later in your crazy contraption.

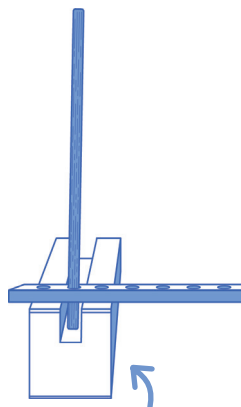
- 2** Cut 8mm off the end of two connector strips.



- 3** Tap or push two dowels from Step 1 into a connector strip from Step 2. Place the dowels seven holes in from each end of the strip and extend out 1 cm.



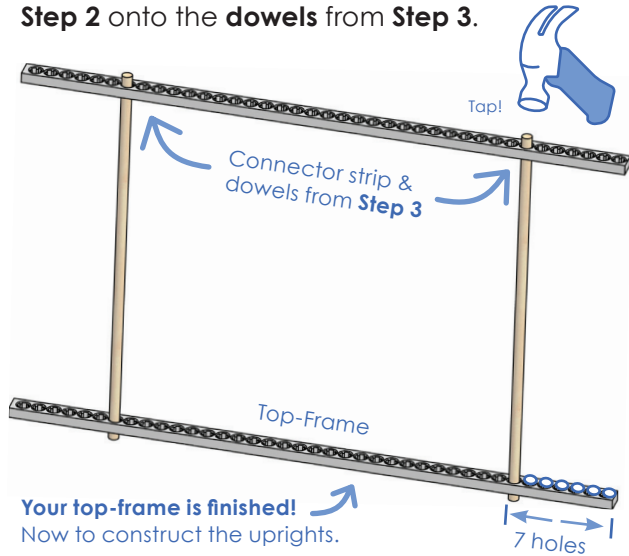
Tap!



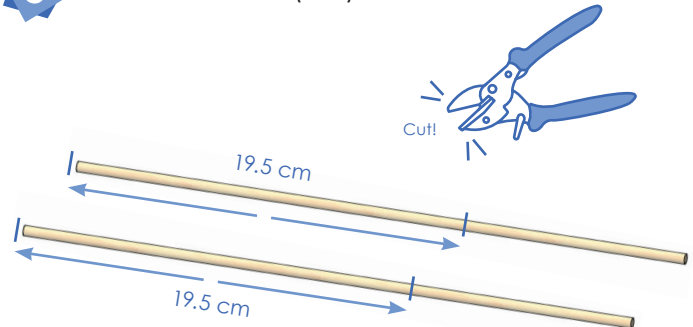
**Tip:** Use a tapping block to expose the dowels if necessary.

# CRAZY CONTRAPTIONS STANDARD FRAME BUILD GUIDE

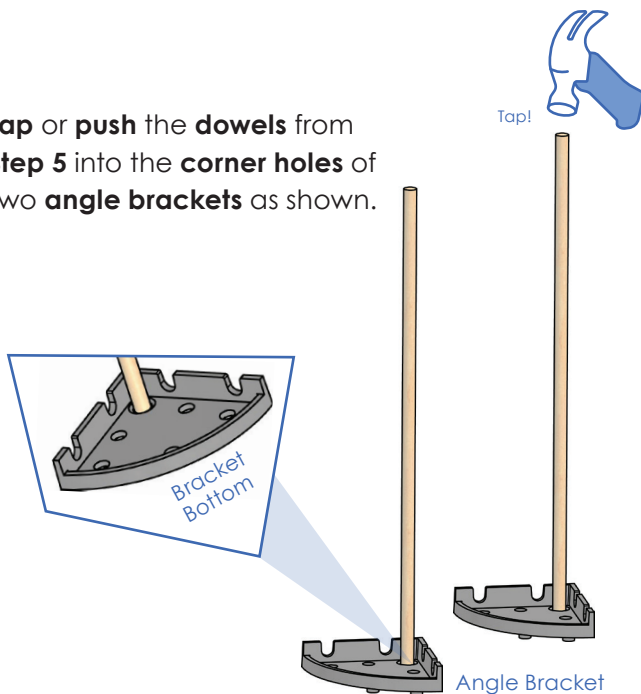
- 4** Tap or push a **connector strip** from **Step 2** onto the **dowels** from **Step 3**.



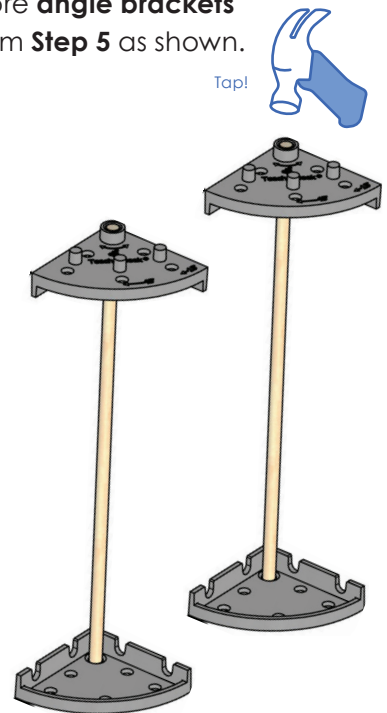
- 5** Cut two 19.5 cm (7.6") **dowels**.



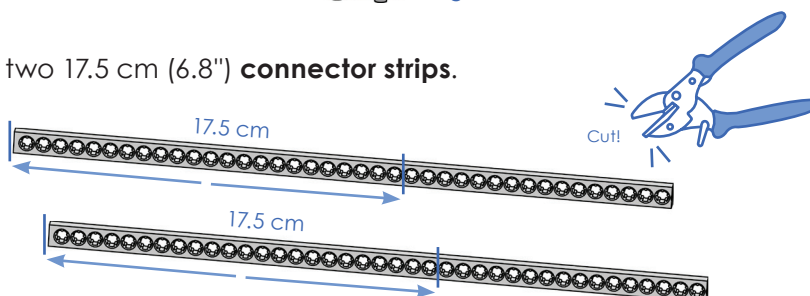
- 6** Tap or push the **dowels** from **Step 5** into the **corner holes** of two **angle brackets** as shown.



- 7** Tap or push two more **angle brackets** onto the **dowels** from **Step 5** as shown.

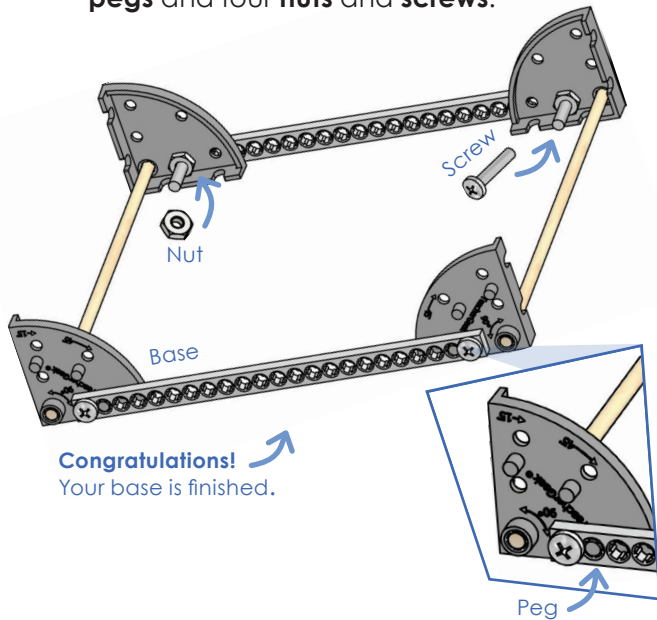


- 8** Cut two 17.5 cm (6.8") **connector strips**.

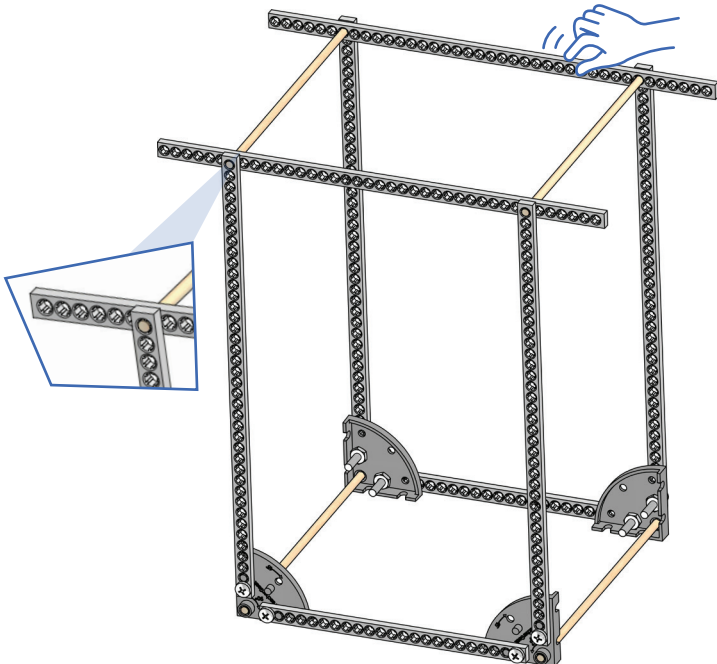


# CRAZY CONTRAPTIONS STANDARD FRAME BUILD GUIDE

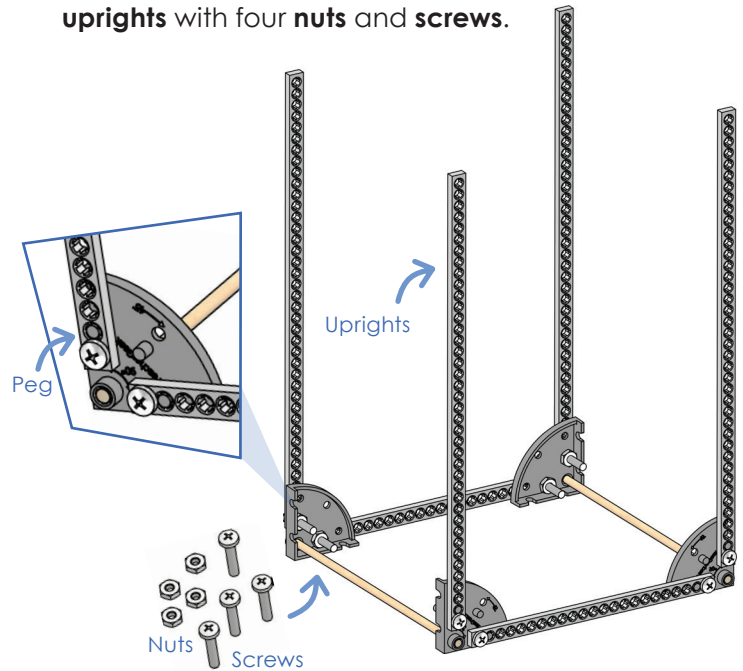
- 9** A. Attach the **connector strips** from **Step 8** to the **angle brackets** from **Step 7**.  
B. **Secure** the strips with the angle bracket **pegs** and four **nuts** and **screws**.



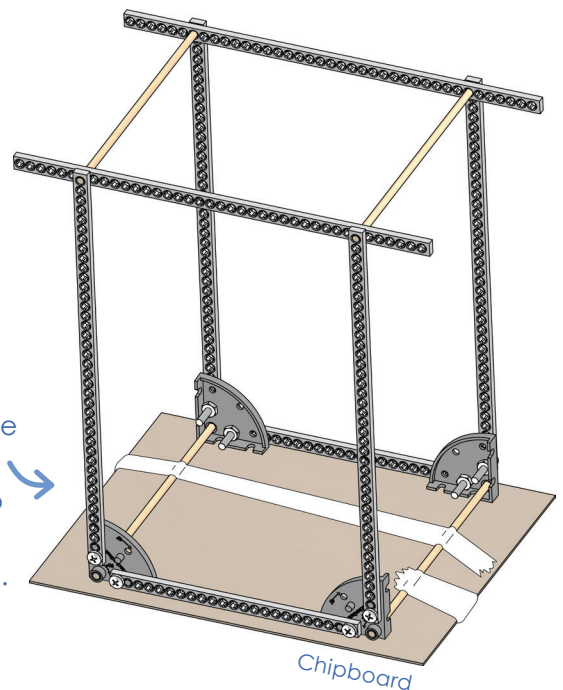
- 11** Attach the **top-frame** from **Step 4** to the **uprights** from **Step 10**. Push the dowels into the top **hole** of each upright.



- 10** Attach four full **connector strips** to the upper angle bracket **pegs** from **Step 9**. Secure these **uprights** with four **nuts** and **screws**.



**Optional:**  
Stabilize the frame by taping it to a piece of chipboard.



**Congratulations!**

Your frame is finished! Try flipping it upside-down, or right-side up!

# CRAZY CONTRAPTIONS STANDARD FRAME BUILD GUIDE



## Mechanisms: Simple Machines

