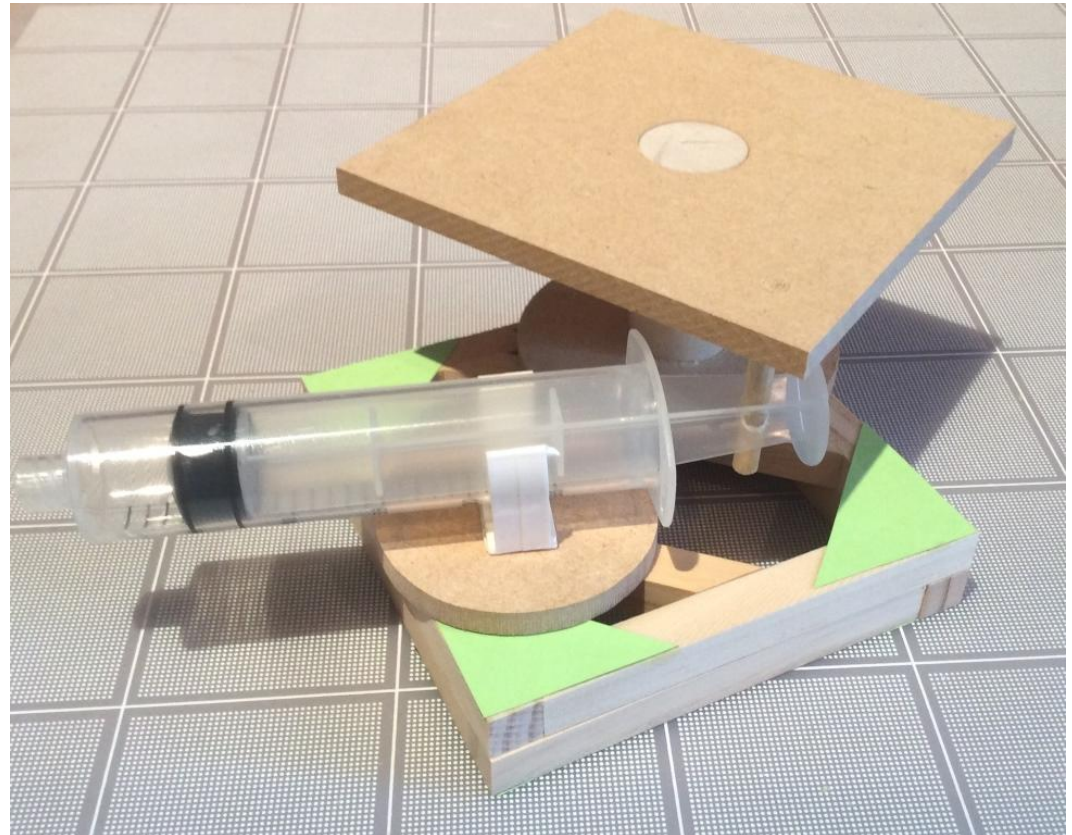


Rotating Platform Instructions For Community Wide Workshop Day



Rotating Platform Kit Contents

- Wooden pieces ($\frac{3}{8}$ " cross-section):
 - 8 pieces of 3-5/8-inch
 - 2 smaller pieces have ends cut at 45° angles
- Green corner gussets: 1 paper card of cut-outs
- 20cc Syringes: 2 (**1 has a hole in the plunger**)
- Plastic Tubing
- Syringe Holder: 1
- Wooden dowels $\frac{3}{16}$ -inch diameter: 2
 - 1 piece of a $1\frac{3}{4}$ -inch length
 - 1 piece of $\frac{7}{8}$ -inch length
- Wooden dowel $\frac{7}{8}$ -inch diameter: 1
- Large wheel ($\frac{7}{8}$ -inch hole): 1
- Medium wheel ($\frac{3}{16}$ -inch hole): 1
- 4-inch Square Platform with $\frac{7}{8}$ -inch & $\frac{3}{16}$ -inch holes
- Small piece of sandpaper: 1



Using Wood Glue & Paper Gussets

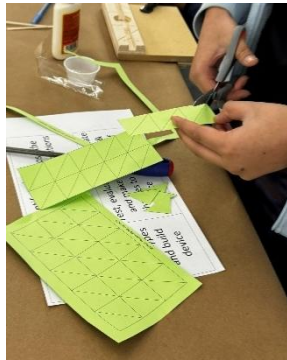
1



2



3



4



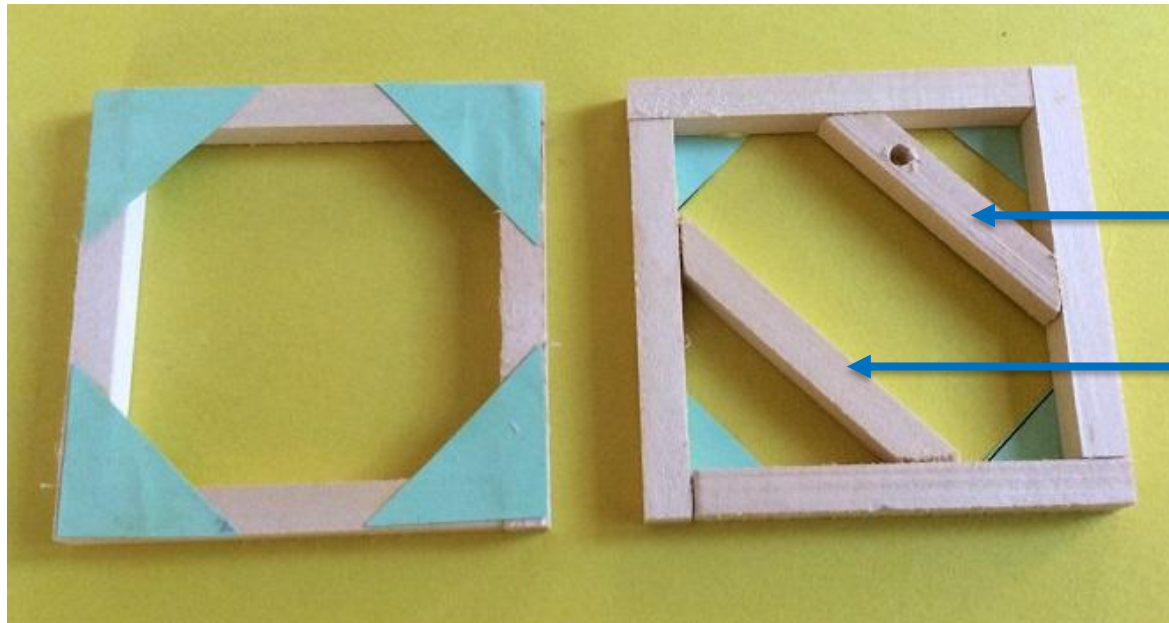
5



1. Add a small amount of glue to the plastic cup.
2. Use stir-stick to apply a thin dab of glue to area where the wood will connect.
3. Cut-out the green paper gussets as needed; these add strength to the glued wood
4. Use a thin layer of glue when applying the GREEN PAPER triangular gussets; too much will soak the paper.
5. Position gussets on glued area sections and let the assembly dry.

Assemble Two Squares

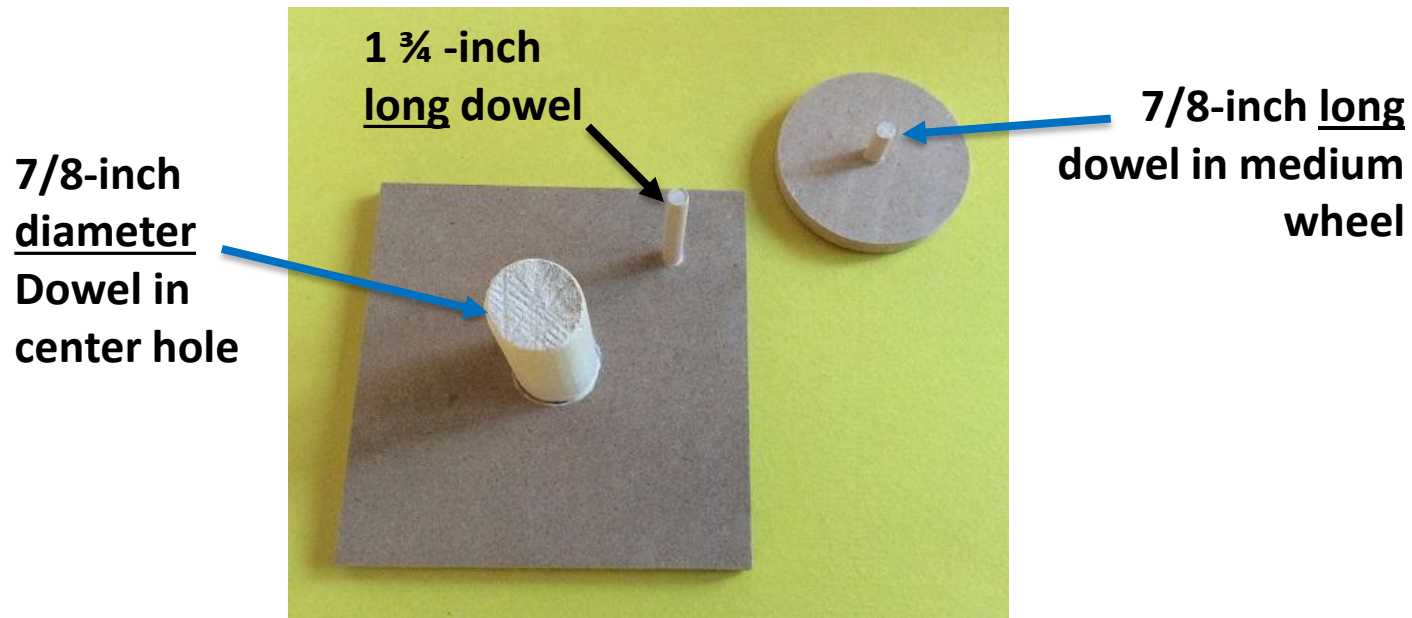
- Assemble eight $3\frac{5}{8}$ -inch pieces into **two** 4-inch squares as shown below.
- Join and secure the pieces using glue and green gusset triangles. Place triangles on **one side of each square**.
- Glue the two short pieces with 45-degree cut angle into **one of the frames** and let the two squares dry.



Short pieces
with ends
cut at 45-
degree
angles

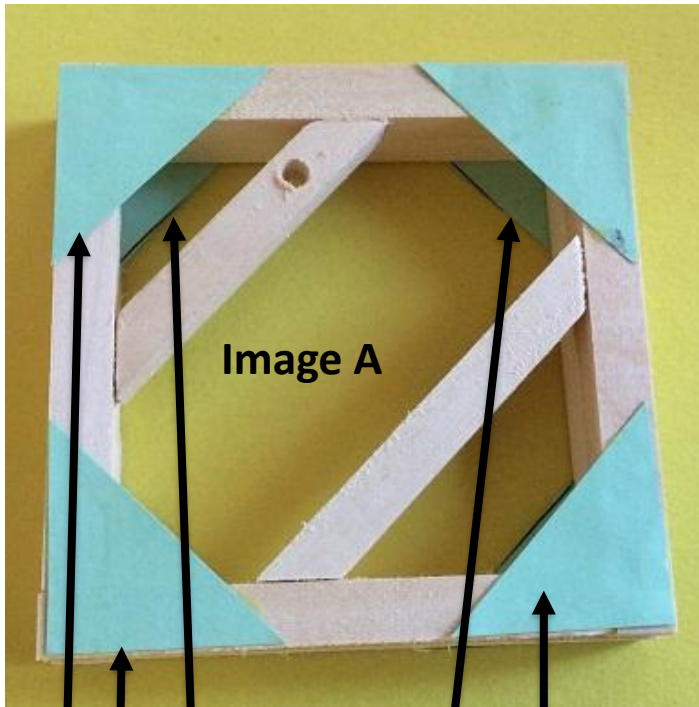
Assemble the Platform

- Glue the $\frac{7}{8}$ -inch diameter dowel into the center hole of the 4-inch platform (see image).
- Glue the $1\frac{3}{4}$ -inch long x $\frac{3}{16}$ -inch diameter dowel into the corner hole of the platform.
- Glue the $\frac{7}{8}$ -inch long x $\frac{3}{16}$ -inch diameter dowel into the medium wheel (see image).

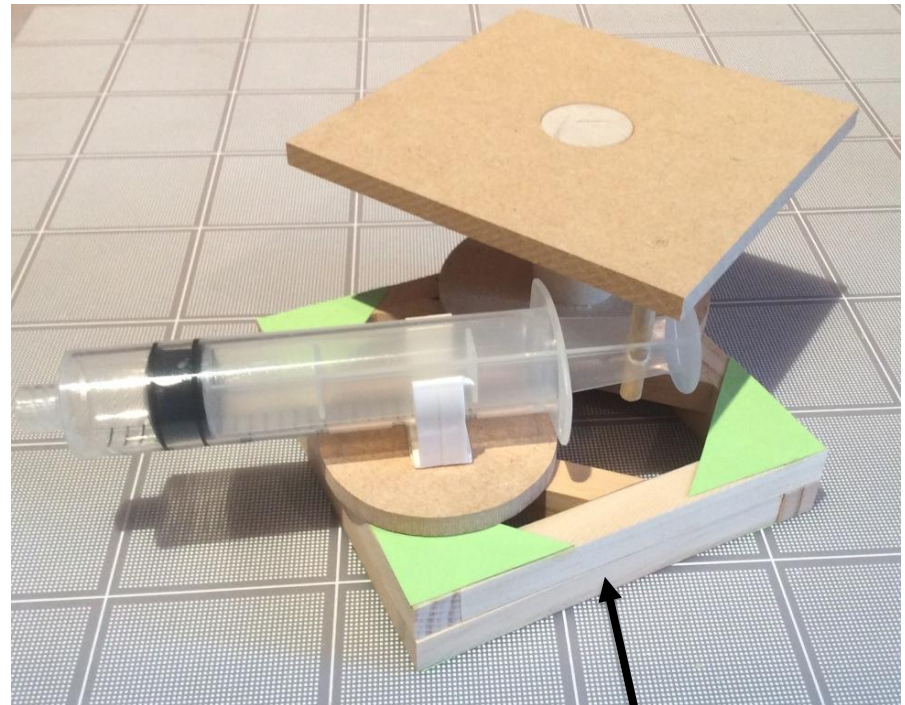


Finish the Two Squares

- Once both squares are dry, stack them together so the square containing the “short pieces with 45-degree angle cuts” is on top (**Image A**).
- Make sure the **green gusset triangles** are also on the outside of the top square and **outside of the bottom square (Image A)**.
- Glue the squares together and let the stack dry.



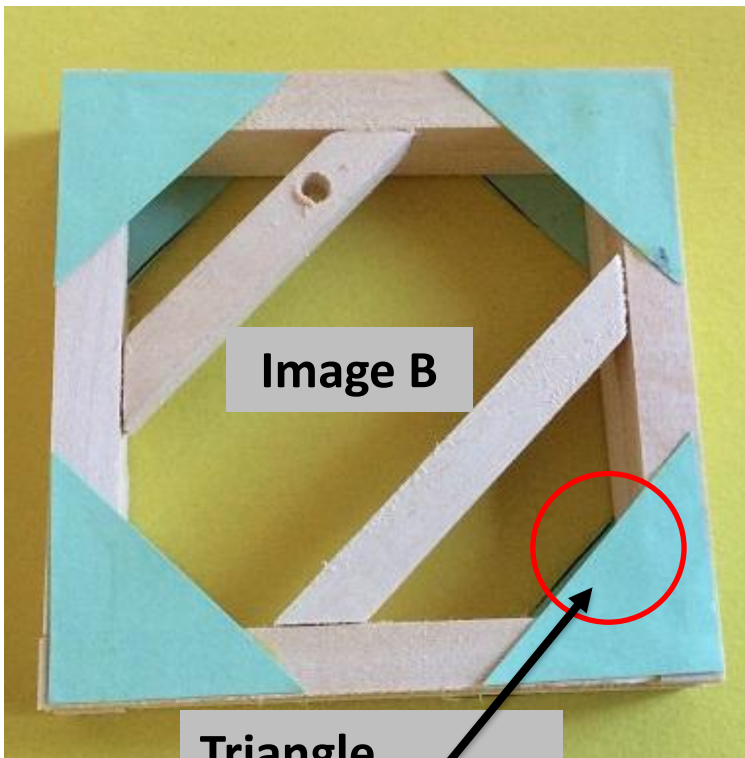
Gussets are on
outside of each
square



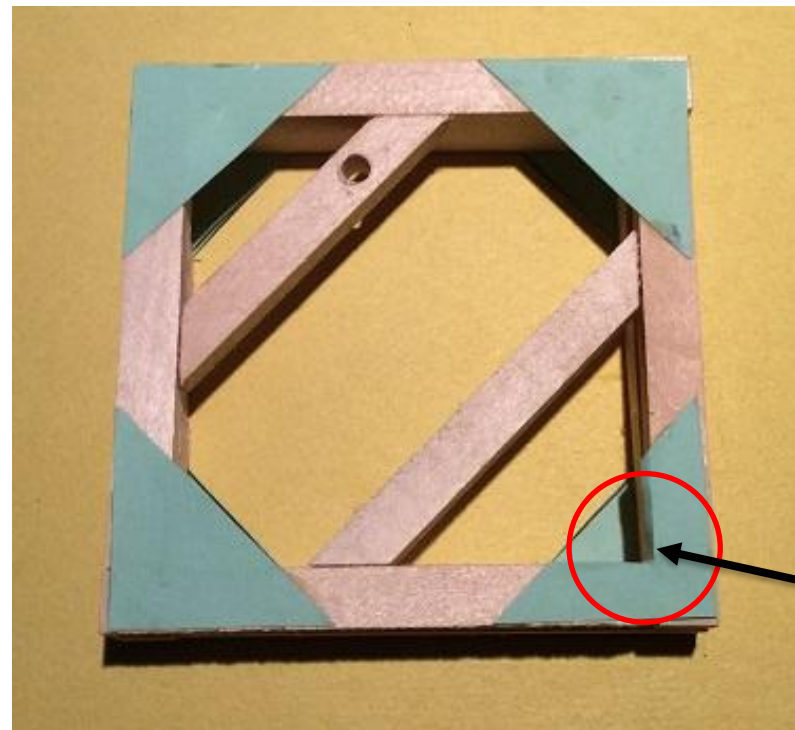
Side view of stacked
squares

Finish the Two Squares Cont.

- Review **Image B**, then position your stacked squares to match the image.
- Cut out a portion of the green gusset triangle located in the **bottom right** of the top square so a 90° corner is formed (see images).



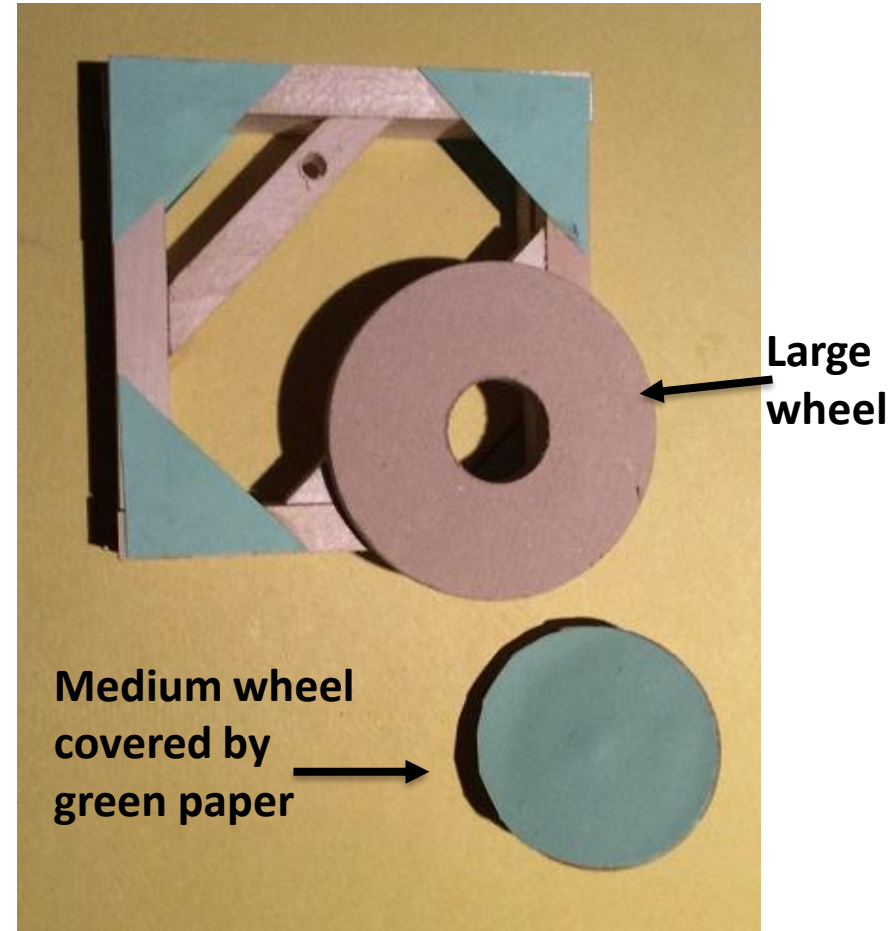
**Triangle
Before cutting**



**90°
corner
After
cutting**

Assemble the Platform

- Review the picture and position your square to match it. Then, position and glue the **large wheel** with 7/8-inch center opening onto the top square as shown. It covers the corner you just cut.
- Insert the 7/8-inch diameter dowel attached to the 4-inch platform into the large wheel's hole. **Do not glue it; the 7/8-inch dowel needs to rotate in the hole.** If it does not rotate, sand the dowel and/or inside of the large wheel's hole.
- **Optional**...cut a circle of green paper to cover the medium wheel and glue it to the wheel.



Assemble the Platform

- Find the hole in the syringe plunger and carefully slide it over the 1 $\frac{3}{4}$ -inch long dowel glued into the 4-inch platform (**Image C**)
- Insert the plunger into the syringe barrel. Then, find the syringe clip and slide the syringe barrel into the syringe clip.
- Remove the “sticky-back” paper from the clip and stick it on medium wheel (**Image D**).

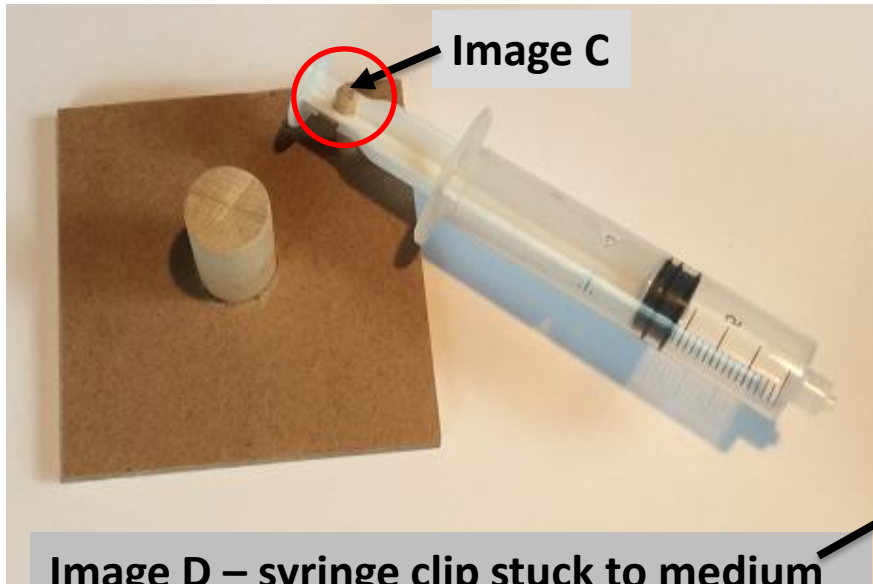
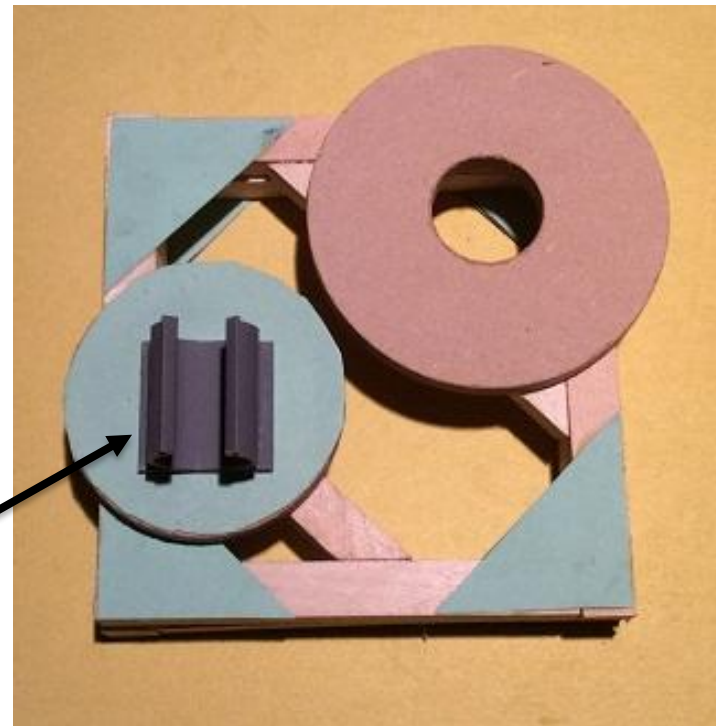


Image D – syringe clip stuck to medium wheel covered by green paper (syringe not shown).



Combine Final Parts

- Combine the 4-inch platform and square assembly to match the picture.
- Find the tubing and attach it to the tip of the syringe secured by the syringe clip.
- Find the 2nd syringe and connect it to the loose end of the tubing.
- Pull the plunger of the 2nd syringe nearly out the syringe barrel.
- To operate the device, push in the plunger. Ask for help if the device does not rotate.

