Rotating Platform

Step-by-step assembly instructions

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Contents of Rotating Platform Kit

Wooden pieces (⅜” cross-section): 8 X 3½”; 2 pieces with 45° ends
Green corner gussets: 1 card
Syringes, 20cc: 2 (1 has a hole in the plunger ½” from end)
Plastic Tubing: 1 length 12”
Syringe Holder: 1
Wooden dowel, 3/16” diam.: 1 X 1¾”; 1 X ⅞”
Wooden dowel, ⅞” diam. 1 X 2⅞”
Large wheel, with ⅞” hole X 1, Medium wheel X 1
4” Square Platform with ⅞” & 3/16” holes
Plus a small piece of sandpaper

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Make two 10cm squares using the eight 3⅝” pieces. To join the pieces of wood together use green triangles on one side only and a small amount of wood glue on each triangle. Also glue the two other pieces into one of the frames as shown.
Glue the larger dowel into the center hole of the platform and the longer small dowel into the corner hole of the platform. Glue the other small dowel into the wheel.
When the frames are dry glue them together. Apply glue to the sides without the green corners. The frame with the extra pieces goes on the top.
Cut out part of the green card on the top frame in one corner (the 90 ° corner of the largest triangle)
Glue the large wheel onto the frame as shown. Make sure the ⅞” diameter dowel that is attached to the platform rotates freely in the hole of the large wheel.
Attach the plunger of the syringe with hole in it to the platform.
Strip off the backing from the white clip and firmly press it onto the centre of the wheel
Assemble the model as shown and then push the tubing onto the syringe. To operate the platform attach the other syringe, with its plunger in, onto the tubing and then pull its plunger out.
Glue a piece of card stock onto the top of the platform to measure rotation. The platform will rotate approximately 80° when the system operates. Note that the wheel with the syringe holder rotates as well as the platform.