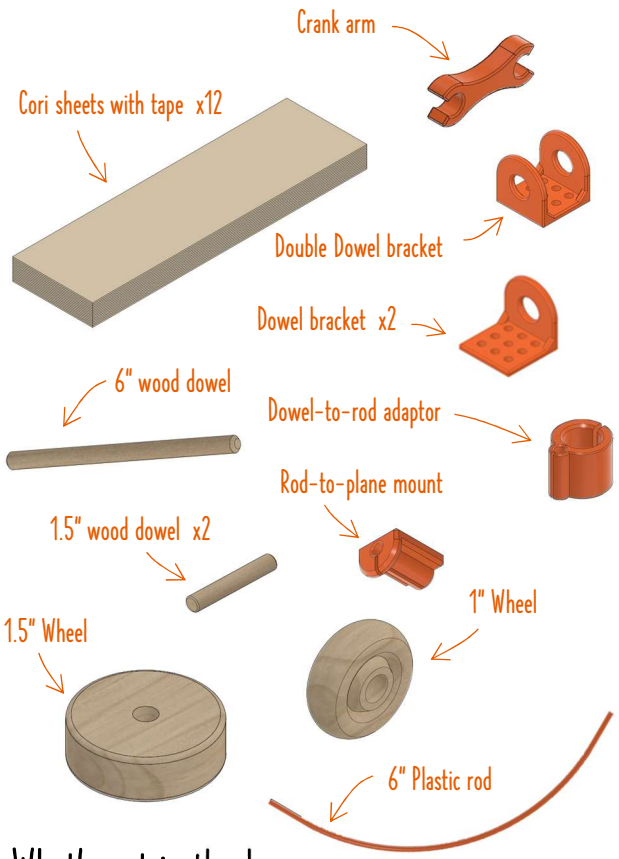
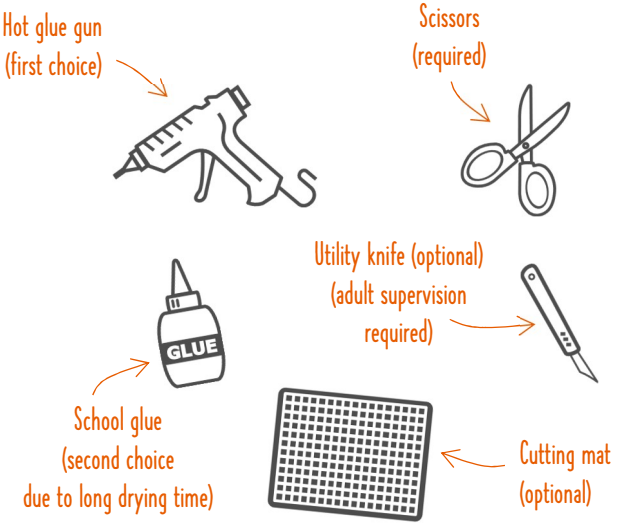
What's in the box:

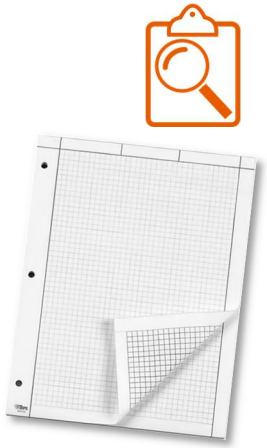


What's not in the box:



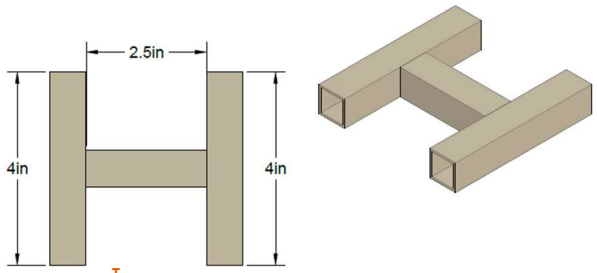
STEP 1: Sketch your design

Use the plane in step 8 or design another flying object or character. Spend some time sketching up what your creation may look like. Make a plan to guide your design.



STEP 2: Prepare the base

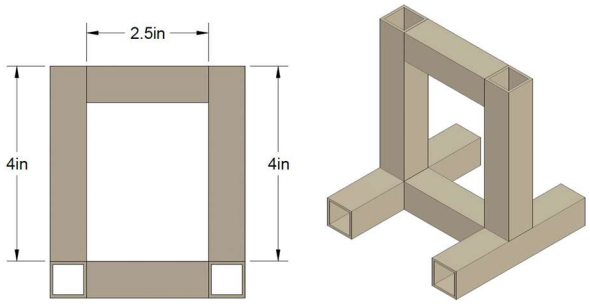
Cut and fold three Cori sheets into beams and glue them in the configuration shown below.



Top view

STEP 3: Add the vertical beams

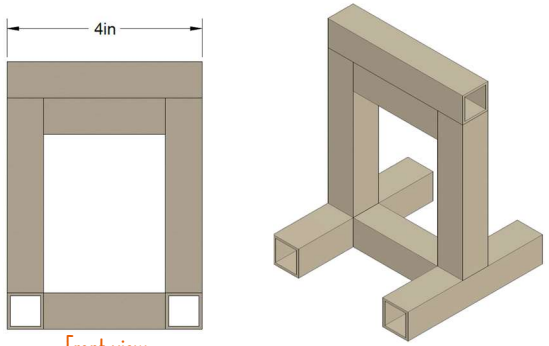
Glue three beams to the base from step 2 as shown.



Front view

STEP 4: Add header beam

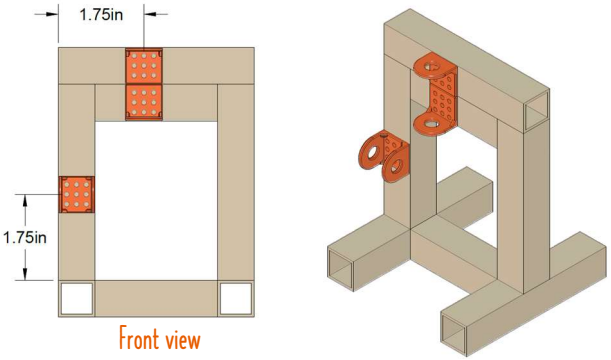
Complete the base by adding a second header beam.



Front view

STEP 5: Install the dowel brackets

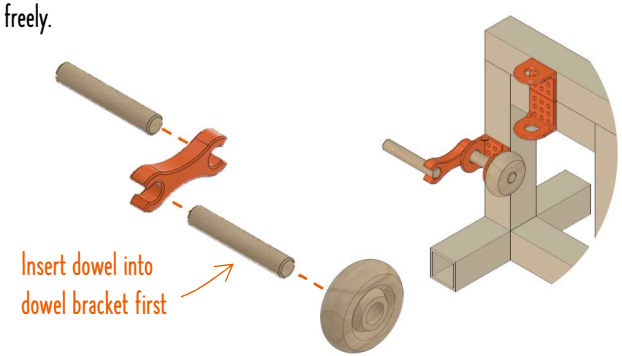
Glue the three dowel brackets according to the illustration below. Pay close attention to the orientation and dimension of each bracket.



Front view

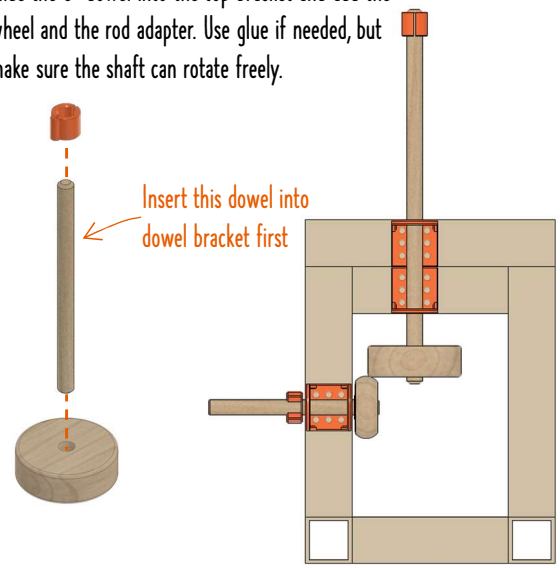
STEP 6: Install the crank shaft

Slide one 1.5" dowel into the vertical dowel bracket and assemble the crank shaft as shown. Use glue if needed, but make sure the assembly can rotate freely.



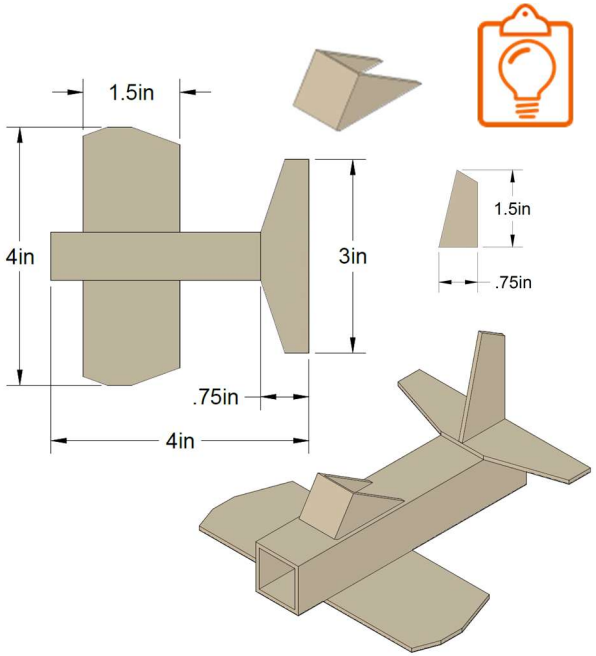
STEP 7: Install the main shaft

Slide the 6" dowel into the top bracket and add the wheel and the rod adapter. Use glue if needed, but make sure the shaft can rotate freely.



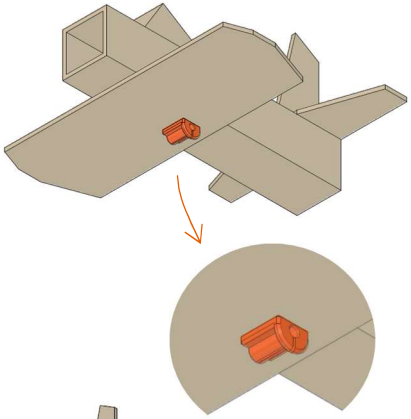
STEP 8: Create your flying object

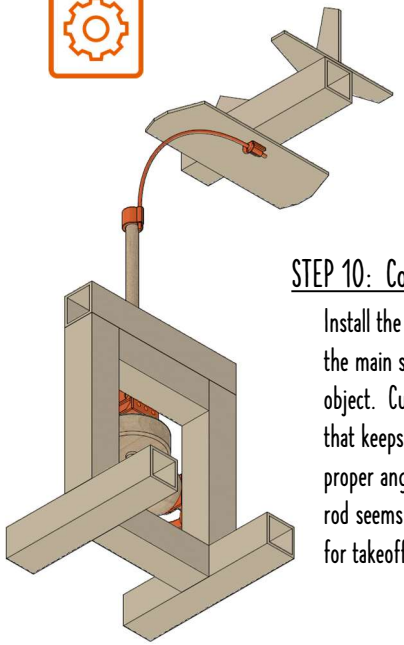
Use the airplane below for inspiration, or go completely custom with your own creation. There is no right or wrong for this part of the build! You can use cardboard from the Cori shipping box for wings, rudders, etc.



STEP 9: Install plane mount

Locate the center of gravity for your flying object and glue the rod-to-plane mount in that location. Note the orientation of the mount.





STEP 10: Complete your creation

Install the plastic rod in between the main shaft and your flying object. Cut the rod to a length that keeps your object at the proper angle. For the plane, a 4" rod seems to work well. Ready for takeoff!

CORI support is here to help. Contact us at support@coricreate.com if you have any questions or comments.

Share your designs using our hashtag #CoriCreate. Follow us on Facebook, Instagram and Twitter.

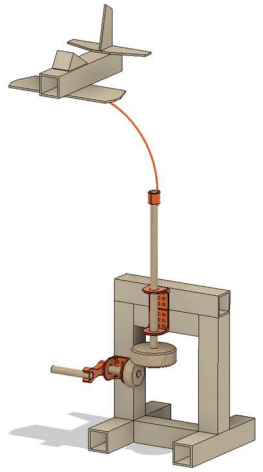
www.coricreate.com

Flying Automata

Instructions

Unleashing creativity

Empower the innovator in any maker while applying real practical STEM skills. The Cori Flying Automata kit is the perfect project to seed curiosity, build grit, improve spatial skills, and sharpen problem solving abilities.



Get a coach

At Cori, we believe in the value of having a coach or a mentor. Every time you see a coach's pad icon in the instructions, it is a good time to check in with your chosen coach.

Coach's pad

Measure twice, cut once

You will construct this model from the ground up. Careful measurements, cutting, and gluing are required to complete this build. While detailed step-by-step instructions are provided, we highly encourage you to improvise and modify as you please. You may even choose to incorporate other materials along the way. But most importantly, have fun!

1-2 hours

Grit required

Ages 8+
(5+ with adult)