Build the Giant Plastic Tap

HELLO FRIEND!

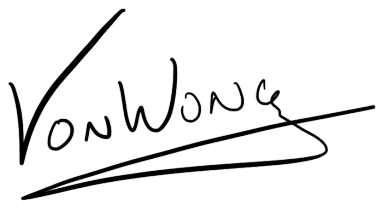
I’m so excited to welcome you to the **Giant Plastic Tap** movement!

When I built the first version of this faucet a couple of years ago, I would have never guessed that it would become a global symbol against plastics and a call to **#TurnOffThePlasticTap**

This faucet was featured at the **United Nation Headquarters** when the Global Plastic Treaty Resolution was signed in Nairobi, Kenya, and continues to fight for change.

Thanks to our friends over at **Students Rebuild,** the amazing origami skills of **Wintercroft,** and the support of the **Nyx Solgaard Foundation,** we’re excited to invite you to join this movement by creating **your very own Giant Plastic Tap** to take a stance against single-use plastics!

I can’t wait to see what you build.



Benjamin Von Wong

@VonWong
#TurnOffThePlasticTap
#GiantPlasticTap

IMPORTANT!!

Start by watching our welcome video and tutorial!

It'll give you an idea of how the final product is supposed to look!

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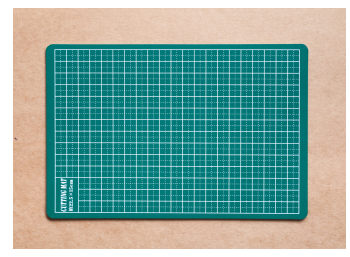
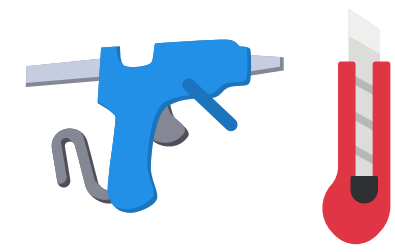
ASSEMBLE YOUR MATERIALS!

FAUCET SUPPLIES

A craft glue stick for tacking templates to the card. You will want to remove the templates after you've cut out the pieces, so something low-tack and non-permanent is best.

A hot glue gun is the best thing for assembling large card models.

Box Cutter and **cutting mat** is the best way to cut thick corrugated card.

Scissors for trimming templates.

Brown Paper Tape to create a tight fit whenever its loose!

Corrugated card stock (fancy word for recycled cardboard!) Your Amazon boxes are perfect!

PLASTIC SUPPLIES

Long metal wire to form a needle.

Pliers to shape and bend the wire.

Fishing line or strong transparent string, to thread the plastics together.

A metal hole puncher, or drill to poke holes in the plastic.

LEVITATION DEVICE

You'll need a **tall light stand.**

The taller the light stand, the taller the art installation.

I recommend a light stand no shorter than 7 feet, with no fewer than 3 segments. (Smallest Light stand I recommend is this one)

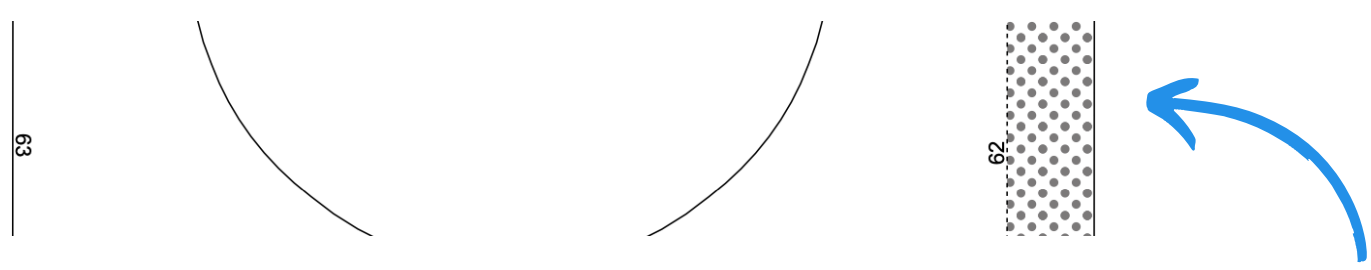
PREPARATION

Print all **22** template pages on either A3 or US Ledger paper. Print at full size and do not scale to fit the page. Cut around the **outside** of the templates along the black lines using **scissors**.

The templates feature two types of tabs: **The blue ones for assembling the templates** and the **grey ones used to construct the model.**

The templates must be assembled using the blue tabs BEFORE you attach them to the card.

ASSEMBLE THE TEMPLATES



The edges to be joined are marked with **spotted tabs**.

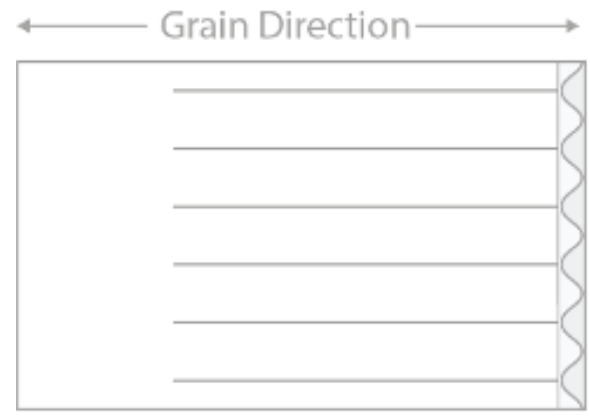
Only join edges with spotted tabs. Find a spotted tab, look for a piece with a matching letter, and then locate the edge with the matching number. For example, tab 20 joins to edge 20. The numbers are not to be completed sequentially.

In each pair of numbered edges, one part will have a gluing tab, and one will not. Use glue or tape to join the templates together. Repeat this process for all of the spotted tabs. Once assembled, the templates are ready to be attached to your card.

GLUE TEMPLATE ON CARD

Unfold your boxes into flat sheets.

Corrugated cardboard has a **grain** and is easier to fold in one direction than the other. Parts A, B, C, D, H, and G must be cut with the corrugation running in the direction shown on the template. **Align the corrugations in the card with the lines on the template.** If your card isn't wide enough, join pieces together, being sure to align the grain.



PRO TIPS

Tack the templates to the card. When you assemble your faucet, **your templates will be on the inside.** The templates must only be tacked in place, as you will remove them later.

Cutting out the templates can be done using a **craft knife and a cutting mat**. Cut around the **outside** of each part. **Cut only along the solid outlines**.

The fold lines on the templates are marked as either a **dashed line representing a valley fold** or **dashes with dots representing a mountain fold**. Remember that the templates will be on the inside of the faucet.

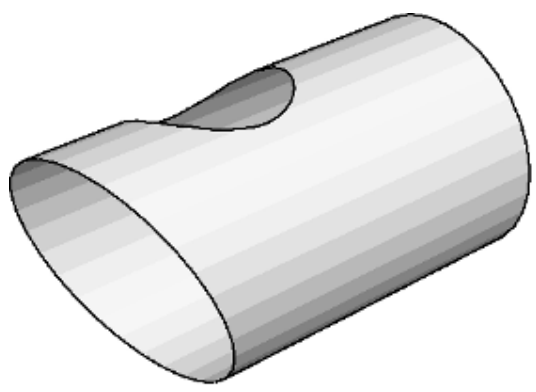
Score the fold lines by cutting halfway through your card with a craft knife. **You can cut through your templates, but ensure they remain fixed to the card.**

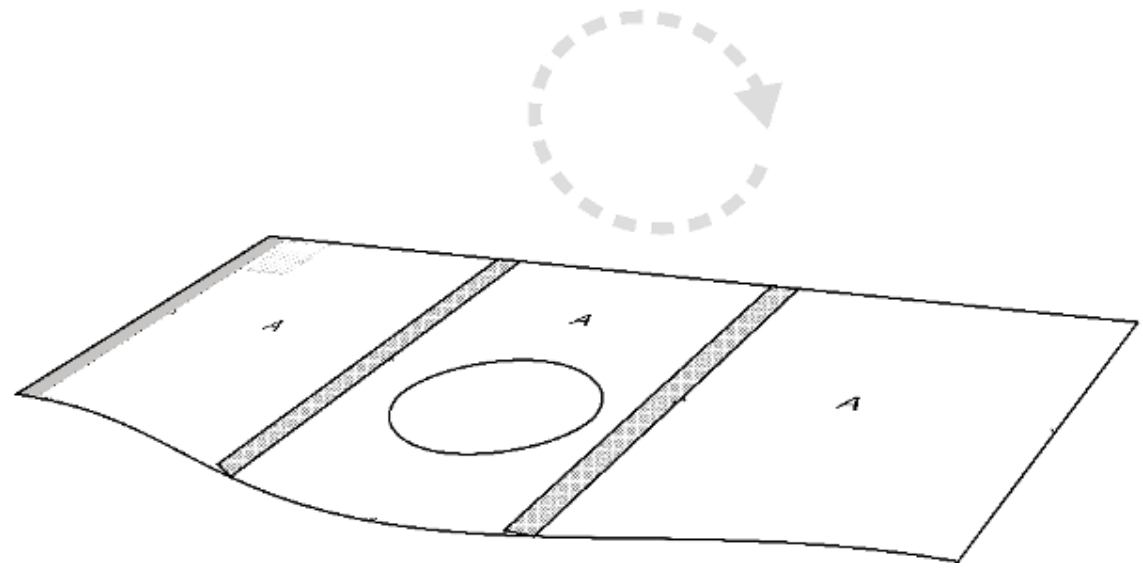
BUILDING THE FAUCET

The model is assembled using **grey tabs.**

Parts (A) to (D) form the faucet's body.

Starting with part (A), find the edge and tab labeled with the number 64. Once you understand how the edges will join together, remove the paper template, keeping it safe as you may need to refer to it later, and using a hot glue gun, apply glue to the tabs and join the edges to form a tube. Removing the paper creates a neater finish and ensures a good bond between the glueing surfaces.



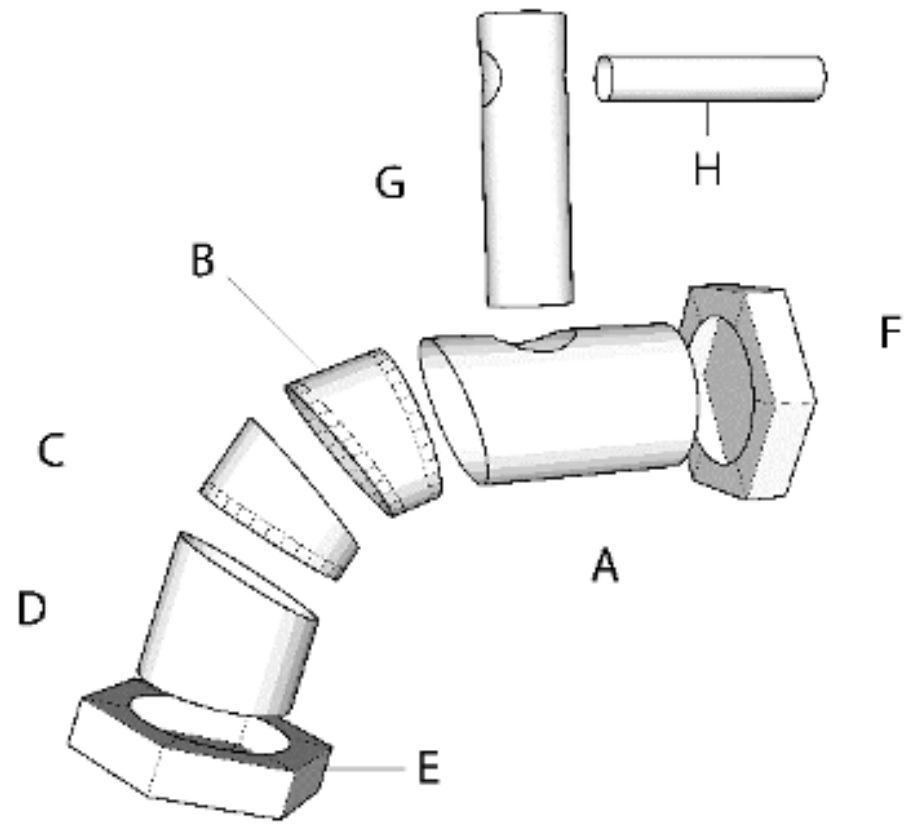


Repeat this process with edge 95 on part (B). Once both parts are assembled, align the tubes by matching the joints and referring to the numbers on the paper templates if necessary, then join part (A) to part (B) using the tabs provided. Next, form a tube with part (C) and join it to part (B), then do the same with part (D).

Make the upper and lower hexagonal rings by assembling the parts labeled (E) and (F).

Next, make the two tubes of the tap handle using parts (G) and (H).

ASSEMBLING THE FAUCET



Corrugated cardboard comes in different thicknesses, so we'll use **paper tape** to get a good fit.

Test fit the **upper ring**, part (F), on the straight end of the faucet. If the ring is loose, remove it, wrap long strips of paper tape around the end of the faucet until it fits snugly.

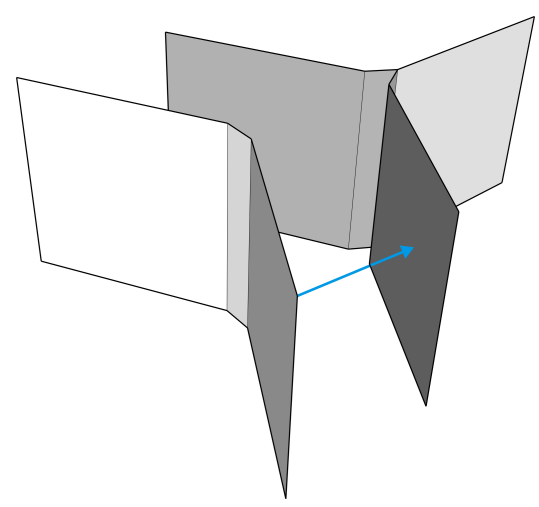
If the ring is still loose, add more packing tape; if it is too tight, trim the cardboard! Once you are happy with the fit, secure everything in place with more tape!

Repeat this process for the lower ring, then assemble the handle in the same way, using the wide packing tape for the crossbar.

BUILDING THE BRACKET

The bracket is made from **three pieces of card.** Assemble them as shown in the diagram below.

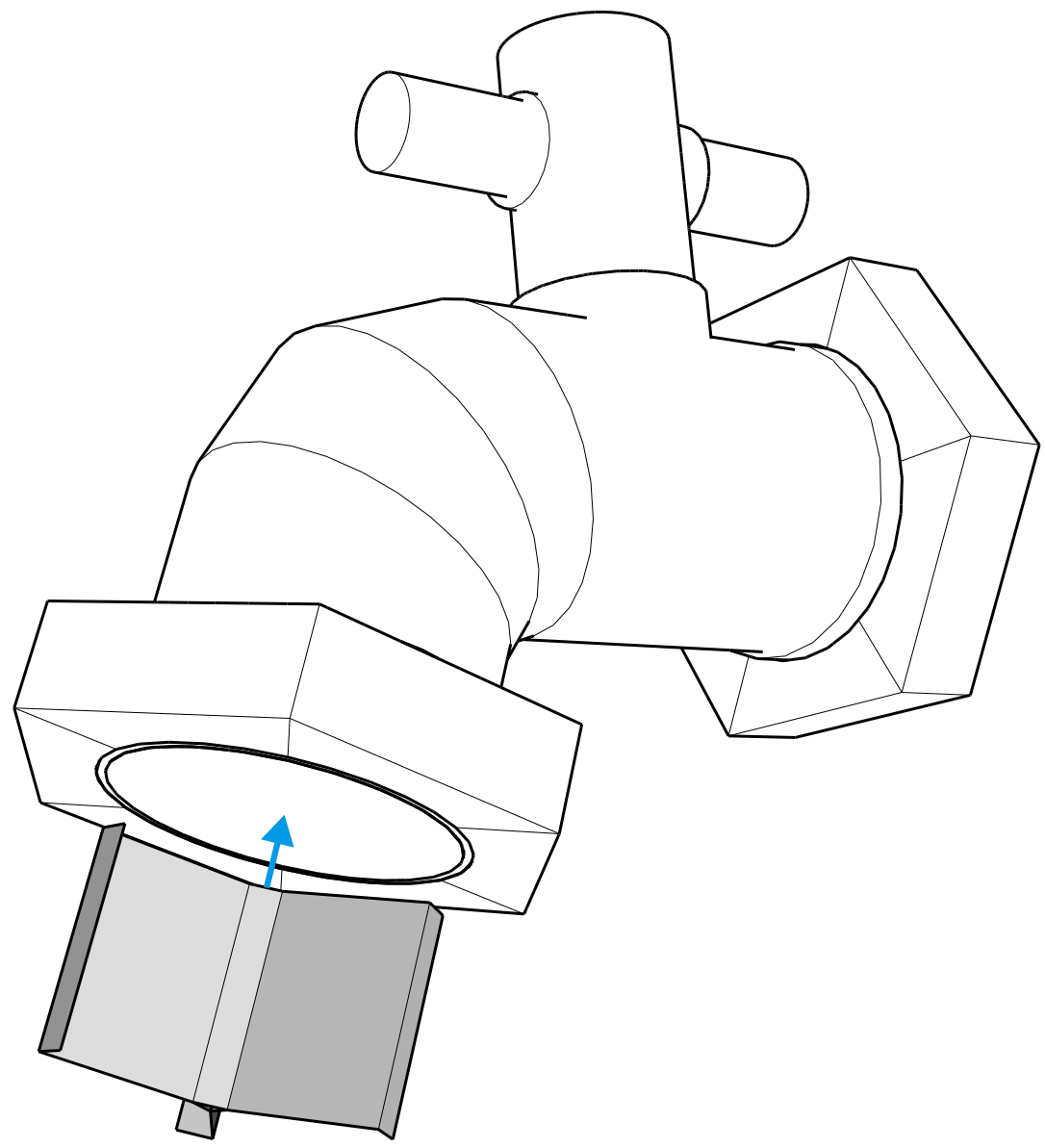
Make sure that the bracket is assembled so that it fits around your light stand!



The bracket will be larger than the diameter of the faucet. Offer up the bracket to the open end of the faucet, aiming to get the centre of the bracket in the centre of the faucet.

Next, mark each wing of the bracket with a pen where the bracket crosses the faucet. Extend the marks you made across each wing of the bracket. Score along these lines and fold the excess material back to form tabs.

Glue the bracket inside the open end of the faucet.



END CAPS

Use the end caps (I, J, and K) to cover the open ends of the faucet handles, securing them in place with brown paper tape.

Check out our 3d model for inspiration!!

POKE HOLES IN PLASTIC

To poke holes in plastic, the easiest way I've found is to use a metal sheet hole puncher.

You can also try using a screw gun, or even just a kraft knife to slice the plastics so that you can thread them together.

Whatever system you use, be safe! Plastics, when cut, is sharp! I recommend testing out a system you like before getting into craft mode!

TIE PLASTICS TOGETHER

Make a **needle** using the metal wire and pliers.

Thread your fishing wire through the first piece of plastic and tie a double knot so it doesn't escape!

Continue until it's approximately 6 feet long and tie a second double knot to hold it all in place!

Tutorial on how to make recycled plastic string from 2L plastic bottles!

HANG PLASTICS

You can choose to hang the plastics on the bracket, or directly on the stand itself!

If you have any soft plastics lying around like plastic bags, packaging wrap or bubble-wrap, you can thread them into your levitating faucet to hide any sign of the light stand so that it looks like it's floating!

YOU'RE DONE!

Don't forget to tag **@VonWong, @StudentsRebuild, #GiantPlasticTap, #TurnOffThePlasticTap #ExtraordinaryEarthProject** when you post this to social media, so we can all see the magical art installation that you create!

Thank you for joining our movement!

students rebuild

Send your art to the Extraordinary Earth Project

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