

HUDRAULIC CLAM

SPRING PROJECT

IT GIRLS

LEVEL CREEK ELEMENTARY

BERKELEY LAKE ELEMENTARY



INSPIRING GIRLS TO PURSUE THEIR PASSIONS

Get your hydraulic claw box but do not remove any of the pieces just yet

Enjoy your breakfast!



IT GIRLS FOUNDATION

Hydraulic Claш <u>Шhat we Learned Last Week</u>

Hydraulics is the study of how fluids move and how that motion can be used.













Examples



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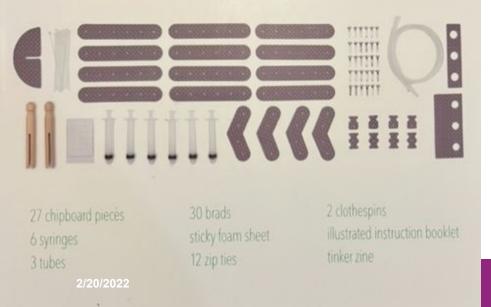
LET'S KEEP BUILDING

IT GIRLS FOUNDATION

2/20/2022



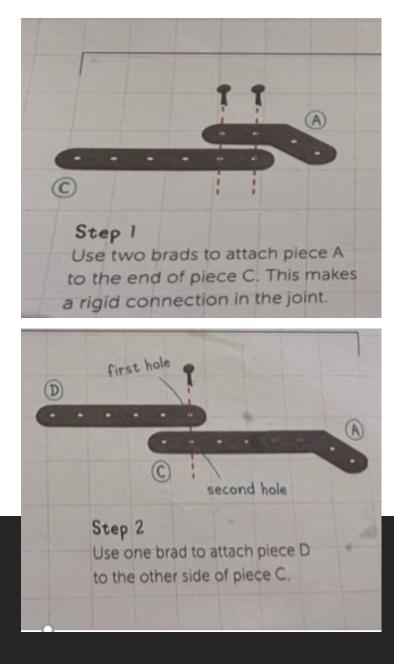
Includes everything you need:



Your Hydraulic Claw Kit

Remove the items from your kit this morning and leave everything else in your box

Completed Hydraulic Tubes Brads Carboard pieces



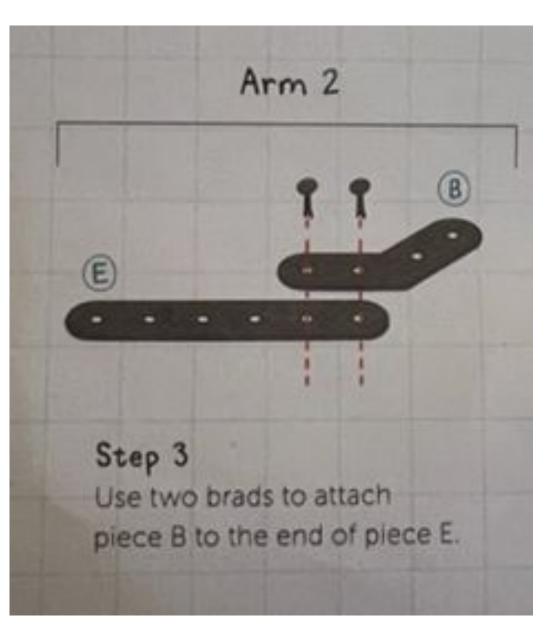


Make Sure to fasten your brade



MECHANISM Build the Claw Arm

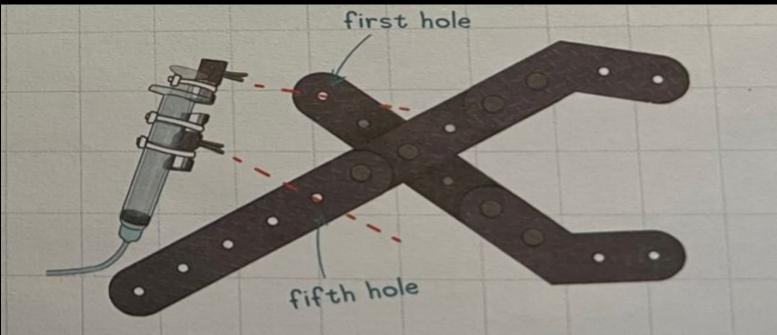
Assemble the 2nd Arm



ASSEMBLE BOTH MECHANISMS TO FORM A CLAW

Step 4 Criss-cross the two arms and connect them with one brad to make a bending Joint. Make sure the arms can move freely.

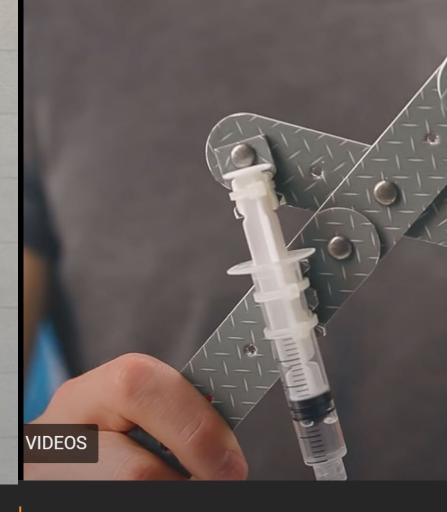




Step 5

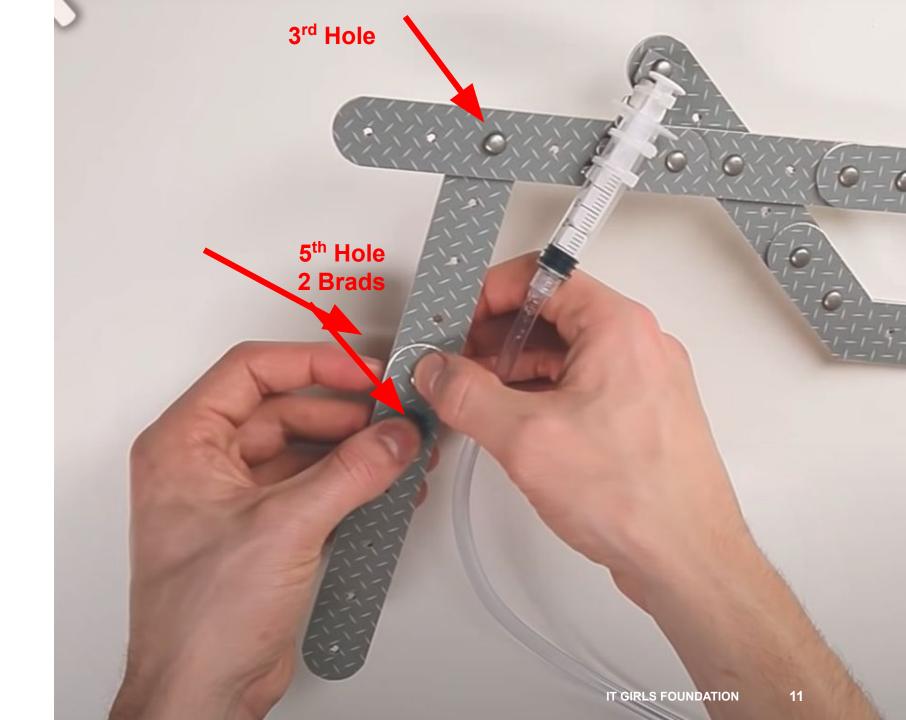
Attach the syringe with the fasteners. The plunger attaches to the shorter arm. The syringe body attaches to the longer arm and makes a rigid connection.

POWER THE CLAW WITH THE Hydraulics



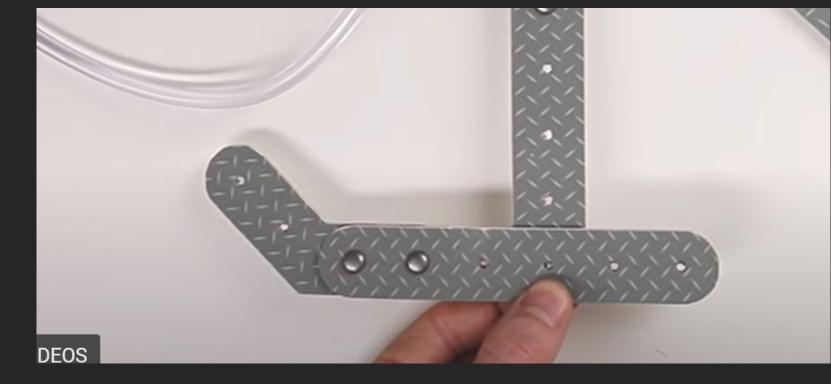
EXTEND THE ARM

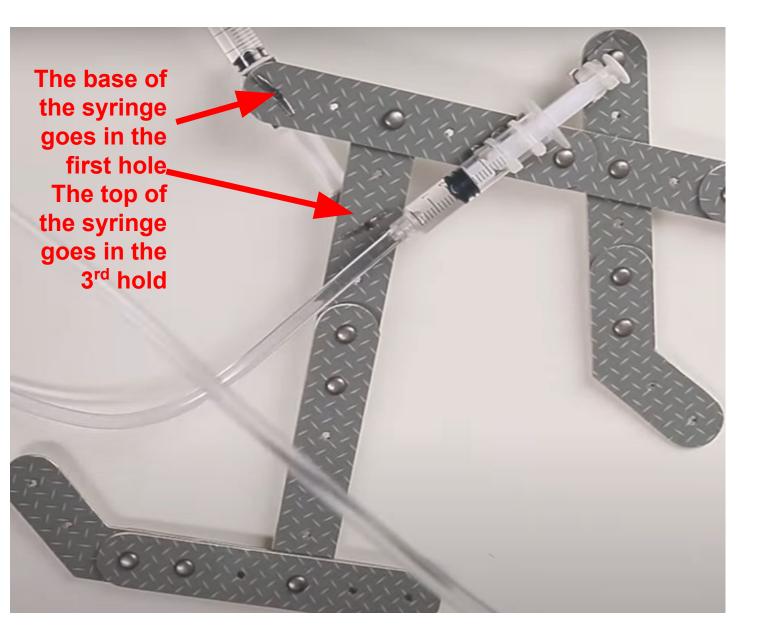
- You will need 2 long cardboards
- Add 2 straight boards to your claw
- Attach with brads



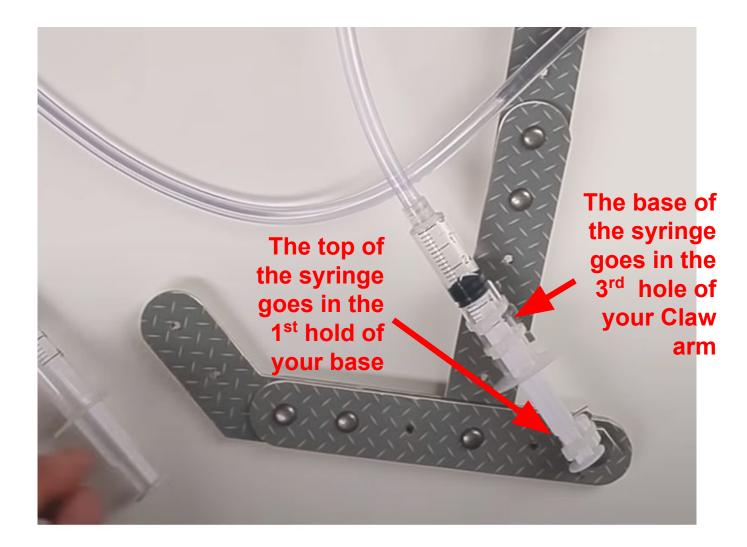
ADD A BASE TO Your claw

You will need 2 long cardboards and 1 bent cardboard





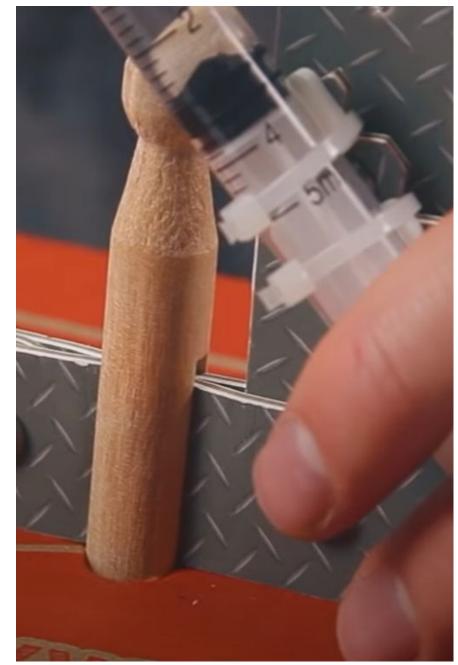
ADD ANDTHER HUDRAULIC

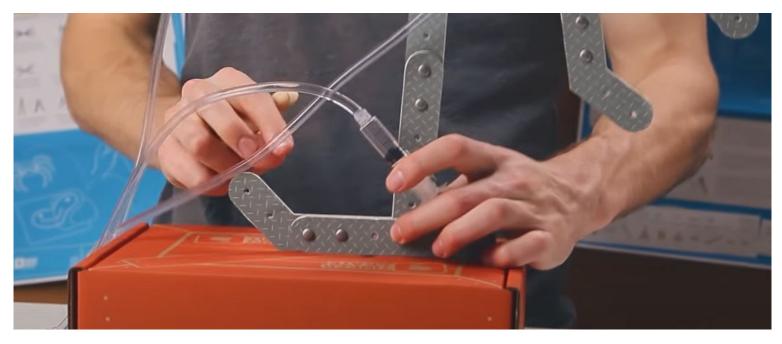


ADD THE LAST Hydraulic

TO BRING FULL MOVEMENT TO YOUR CLAW

Now you have a completed hydraulic claw!





Mount the claw to your box with a clothspin

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ADD YOUR LAST BASE PIECE

You are Finished!

Next Time We Will:

- Build a control panel
- □ Fill add water to our syringes
- Run some experiments!

