

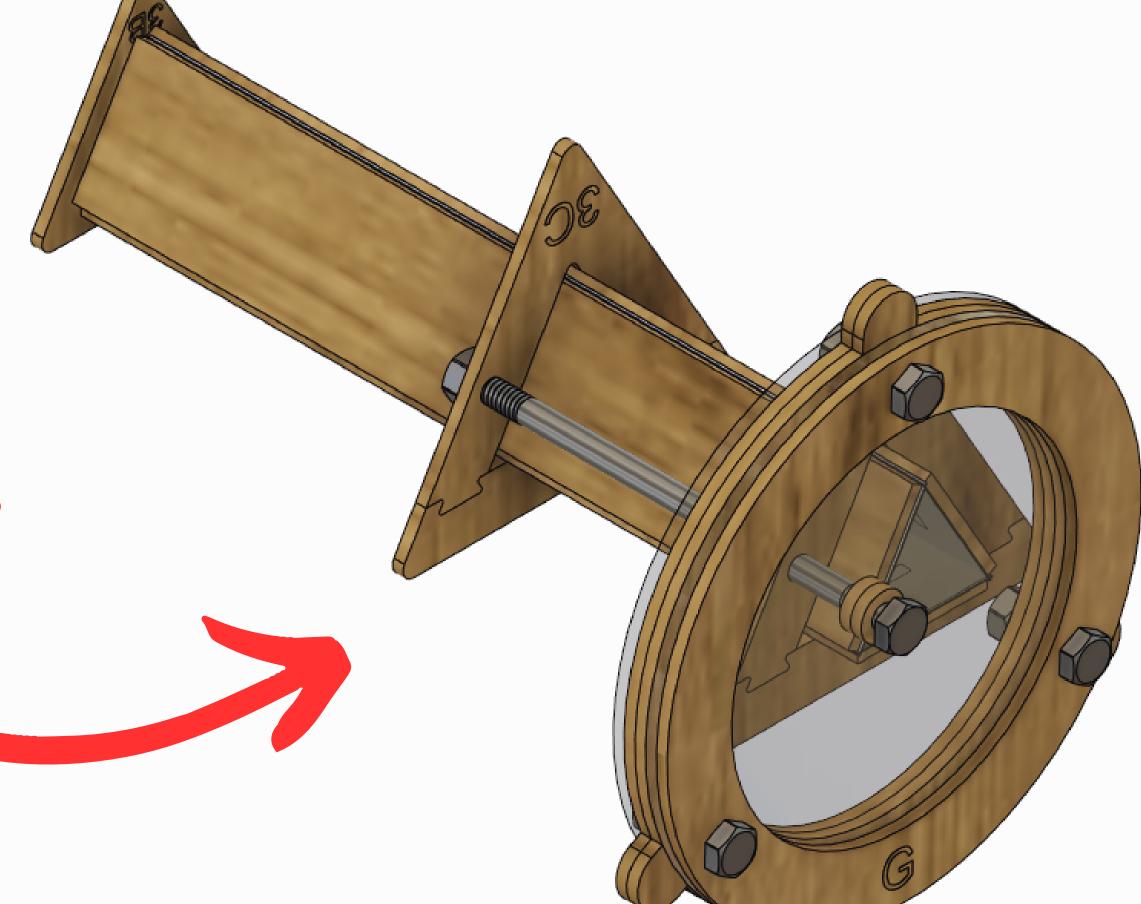
Kaleidoscope Kit: Assembly Instructions

Not much of a reader? Me neither ... thankfully there is a video! To watch the assembly video, go to:

https://www.newton-ar.com/projectdocs

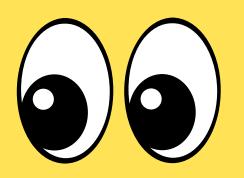


Oh, you're still here? Excellent!
Videos are overrated anyway ... but
if you get stuck make sure to check
out the video:)

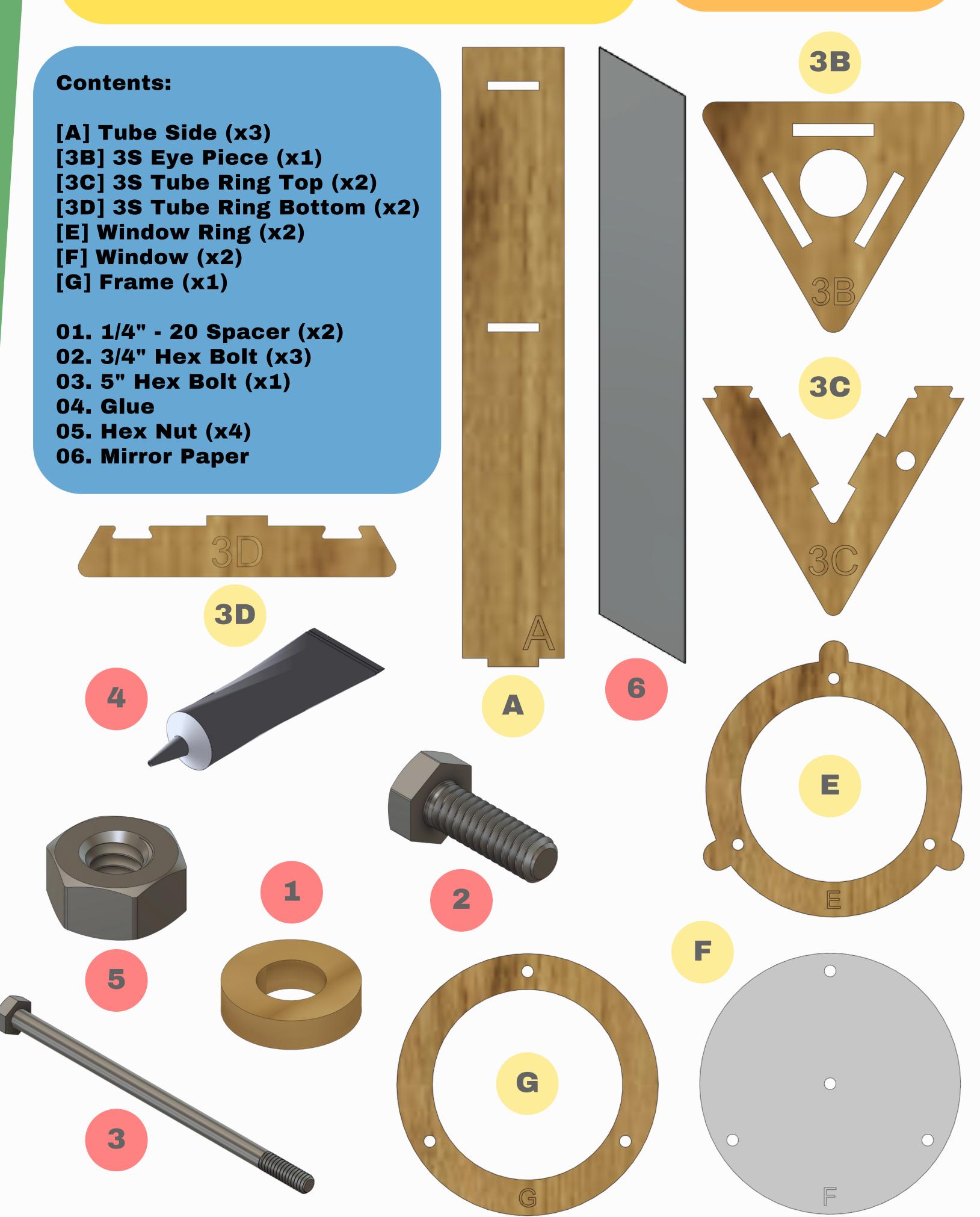


This is what you will be building today. Cool right? Let's being!

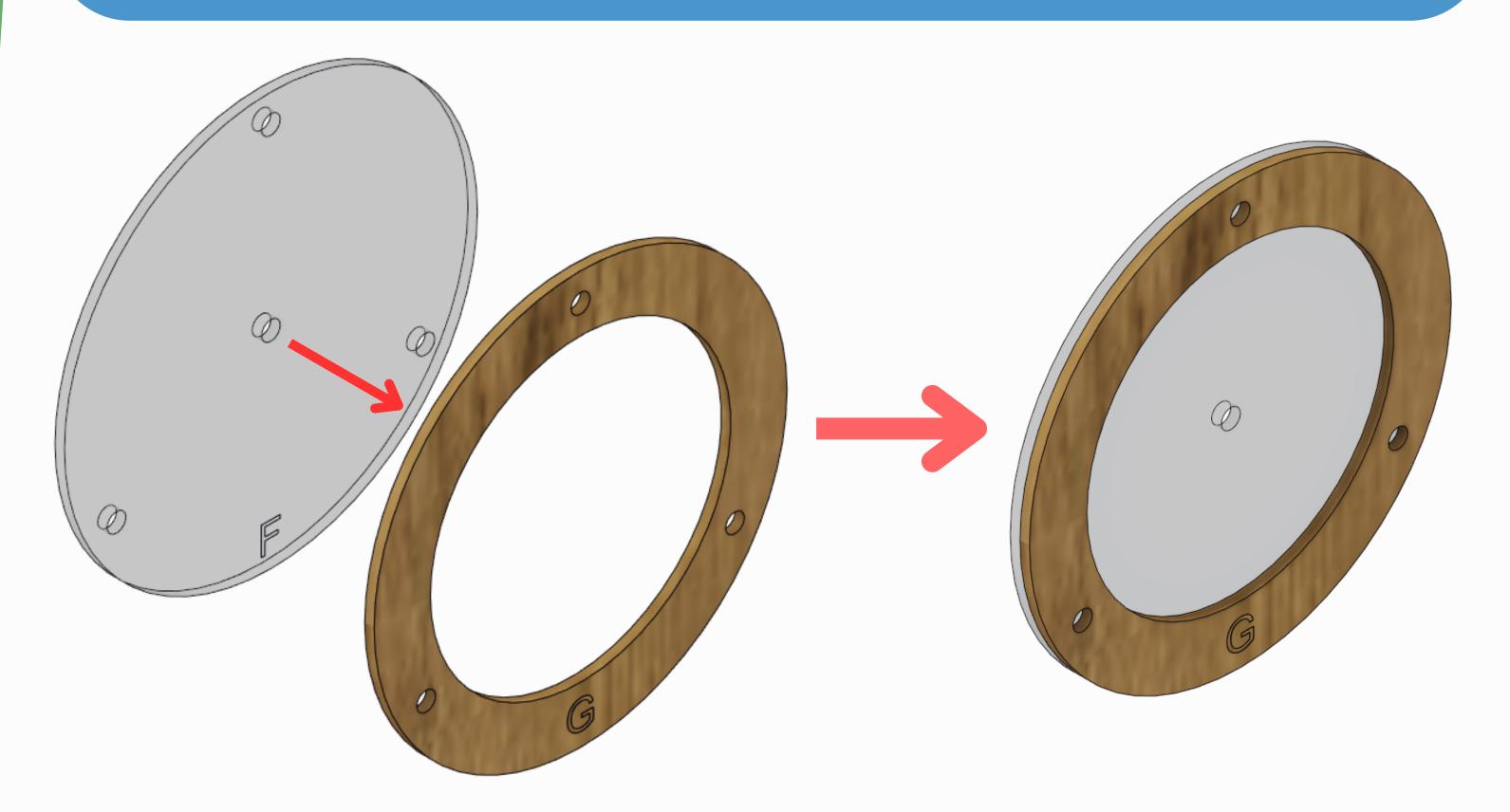
WHAT'S IN THE BOX?



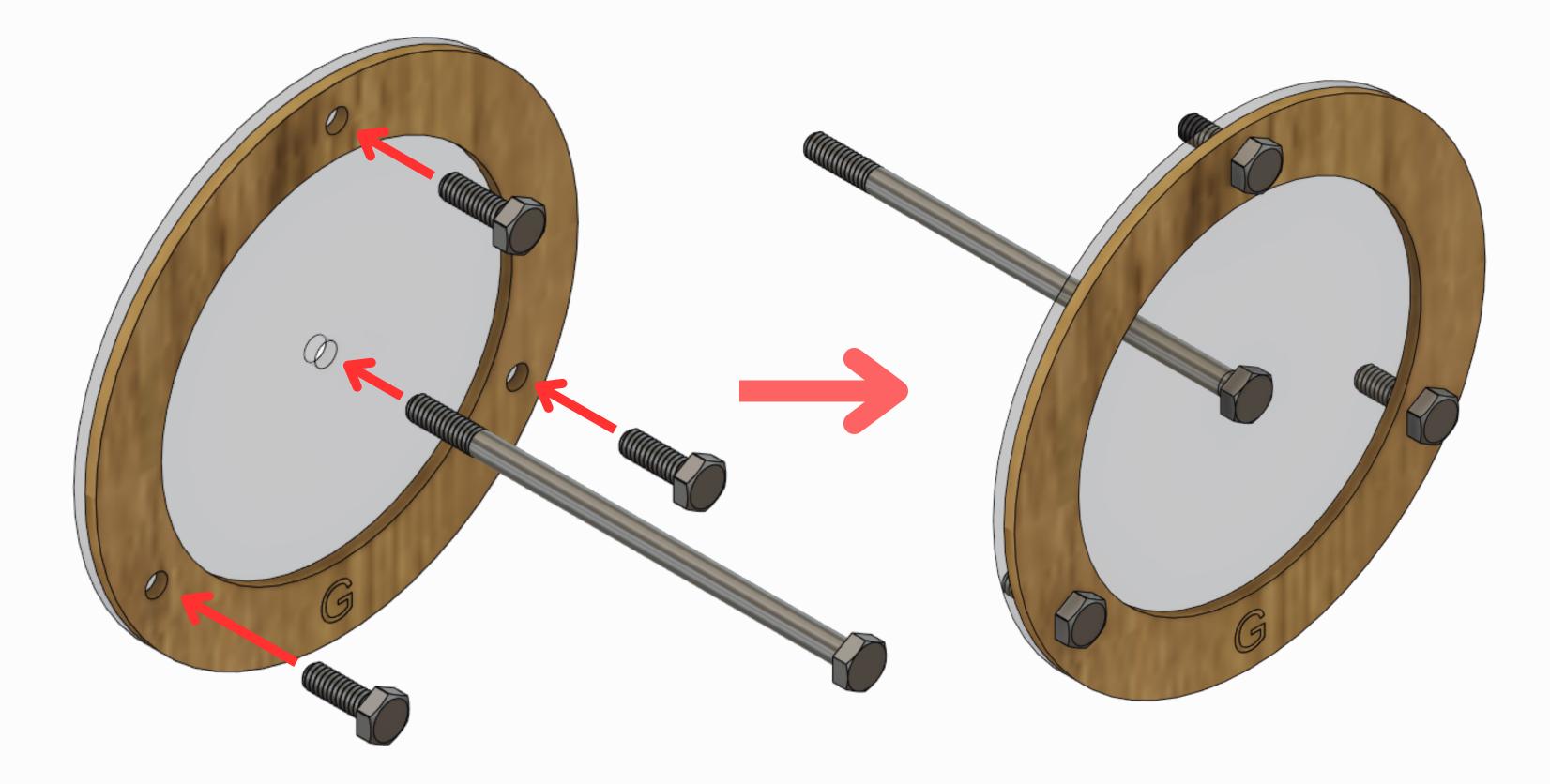




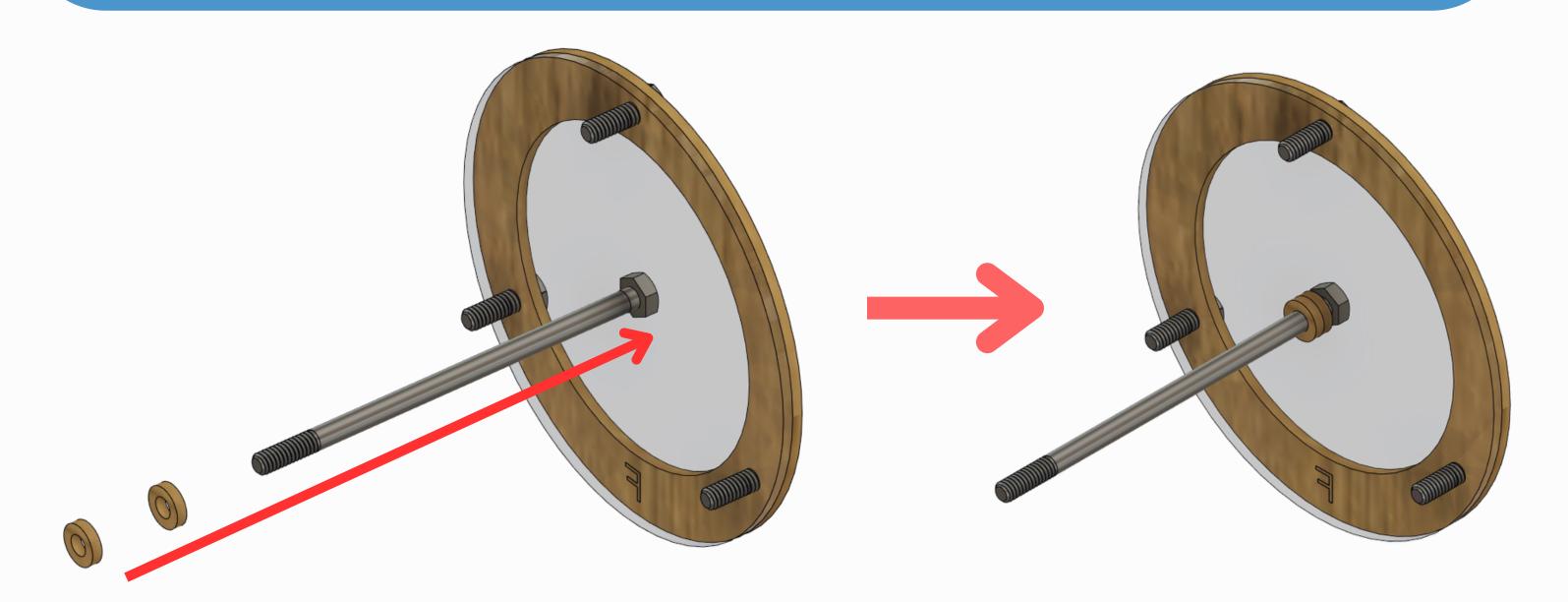
Lightly add some Glue to the back of <u>Part G</u> (DO NOT add glue into the holes). Line up the outer holes in <u>Part F</u> to the holes in <u>Part G</u> and attach the glued end of <u>Part G</u> to <u>Part F</u>.



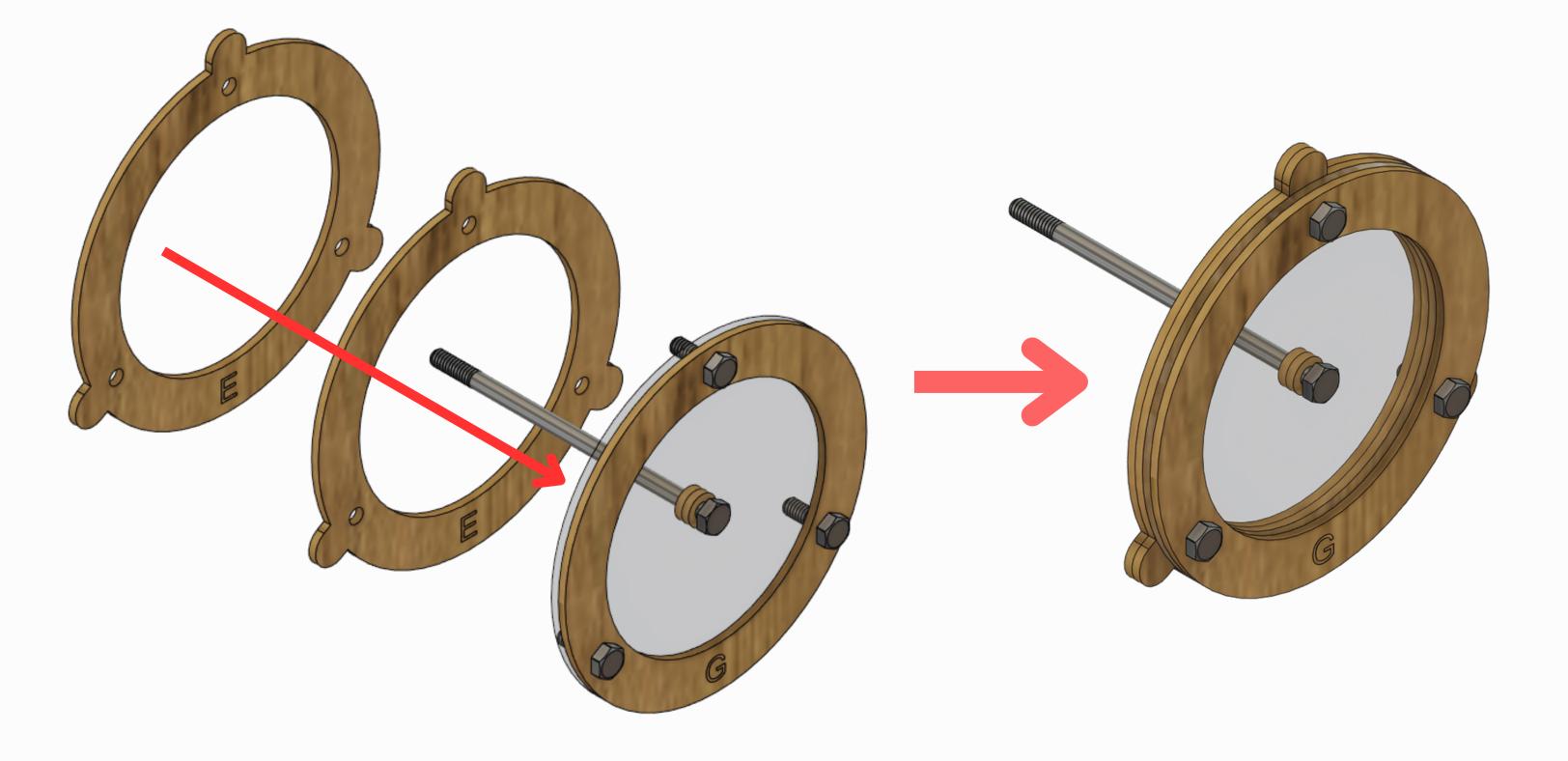
the three 3/4" Bolts and slide them through the three holes in Part G. Then, slide the 5" Bolt through the center hole in Part F. (Make sure the head of each Bolt is as shown in the images below)



Lightly add some Glue to the front of both <u>Spacers</u> (DO NOT add glue into the hole). Attach the front face (glued) of a <u>Spacer</u> to the back (non-glued) of the other <u>Spacer</u>. Then, slide the neck of the <u>5" Bolt</u> through the hole within both <u>Spacers</u> (glued end towards <u>Part F</u>) and stick the <u>Spacers</u> to <u>Part F</u>.

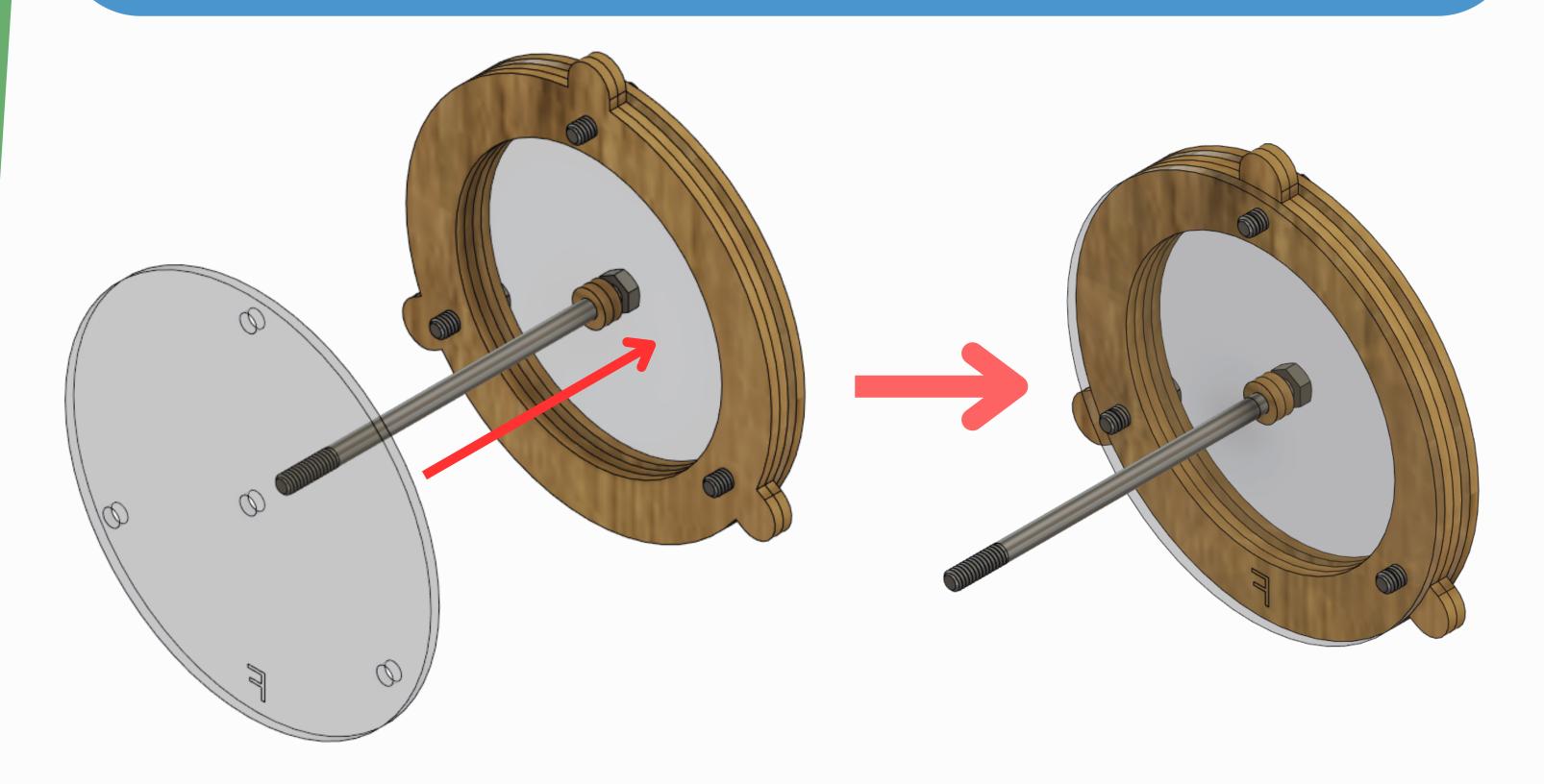


Lightly add some Glue to the front of both <u>Part Es</u> (DO NOT add glue into the holes). Attach the front face (glued) of one <u>Part E</u> to the back (non-glued) of the other <u>Part E</u>. Then, slide the neck of the <u>3/4" Bolts</u> through the holes within both <u>Part Es</u> (glued end towards <u>Part F</u>) and stick both <u>Part Es</u> to <u>Part F</u>.

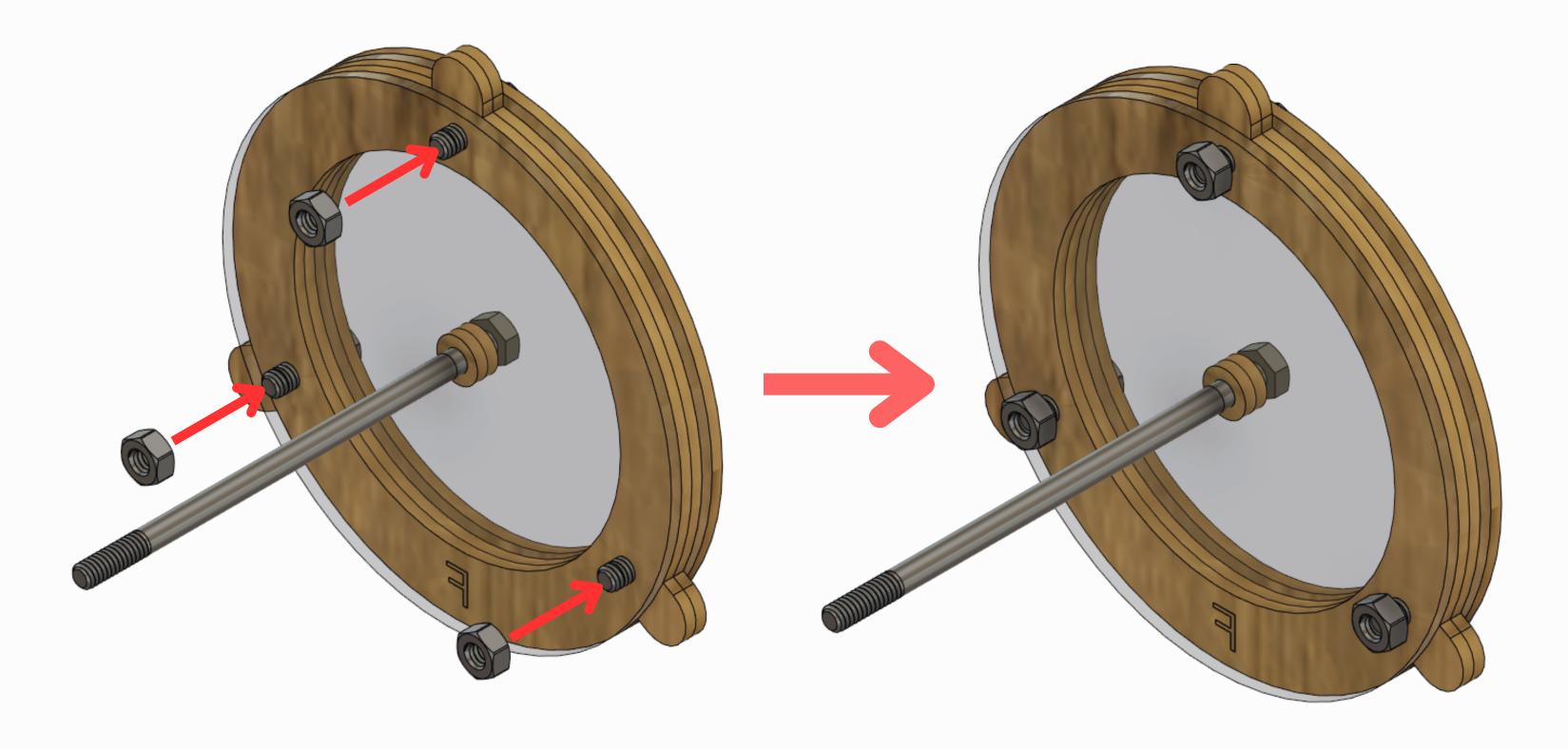




For Step 5, NO GLUE is needed. Slide the three 3/4" Bolt through the outer holes of Part F and the 5" Bolt through the center hole in Part F.

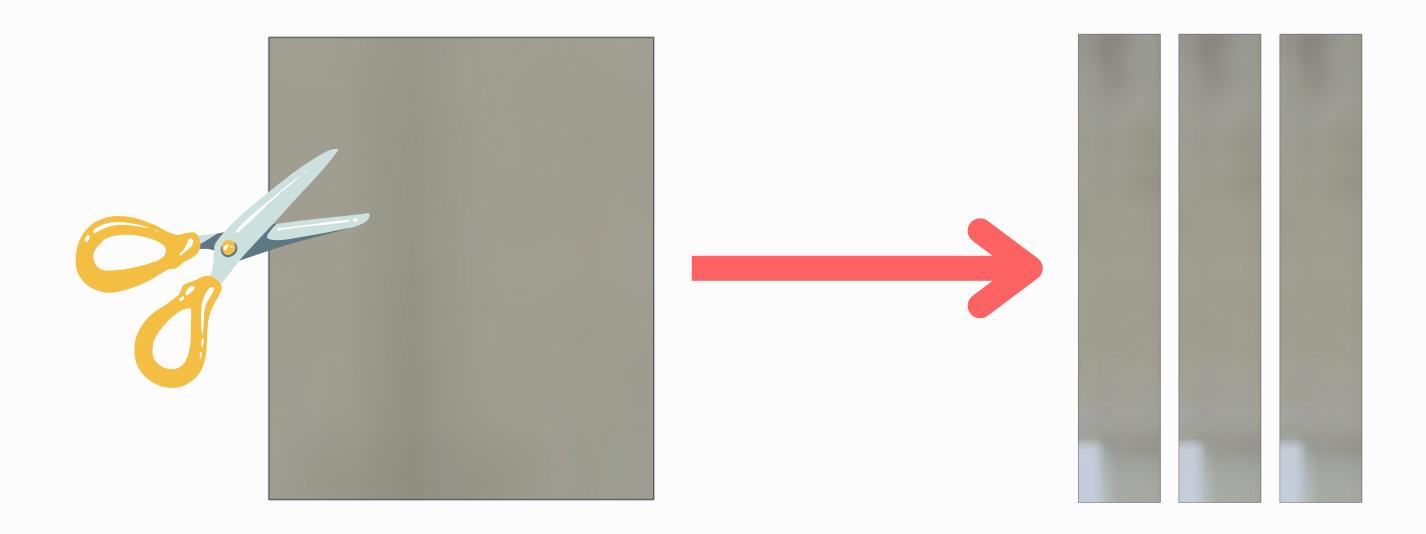


Using 3 of the 4 <u>Hex Nuts</u>, twist the <u>Hex Nuts</u> along the <u>3/4" Bolts</u> to tighten them down and lock the Assembly in place.

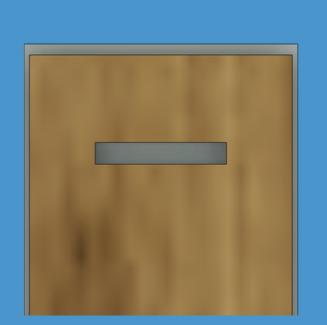




<u>Part A</u> is a 9" x 1.5" rectangle (excluding the tab at the bottom). Cut 03 strips of <u>Mirror Paper</u> so that they are a 9" x 1.5625" (1 9/16") rectangle.

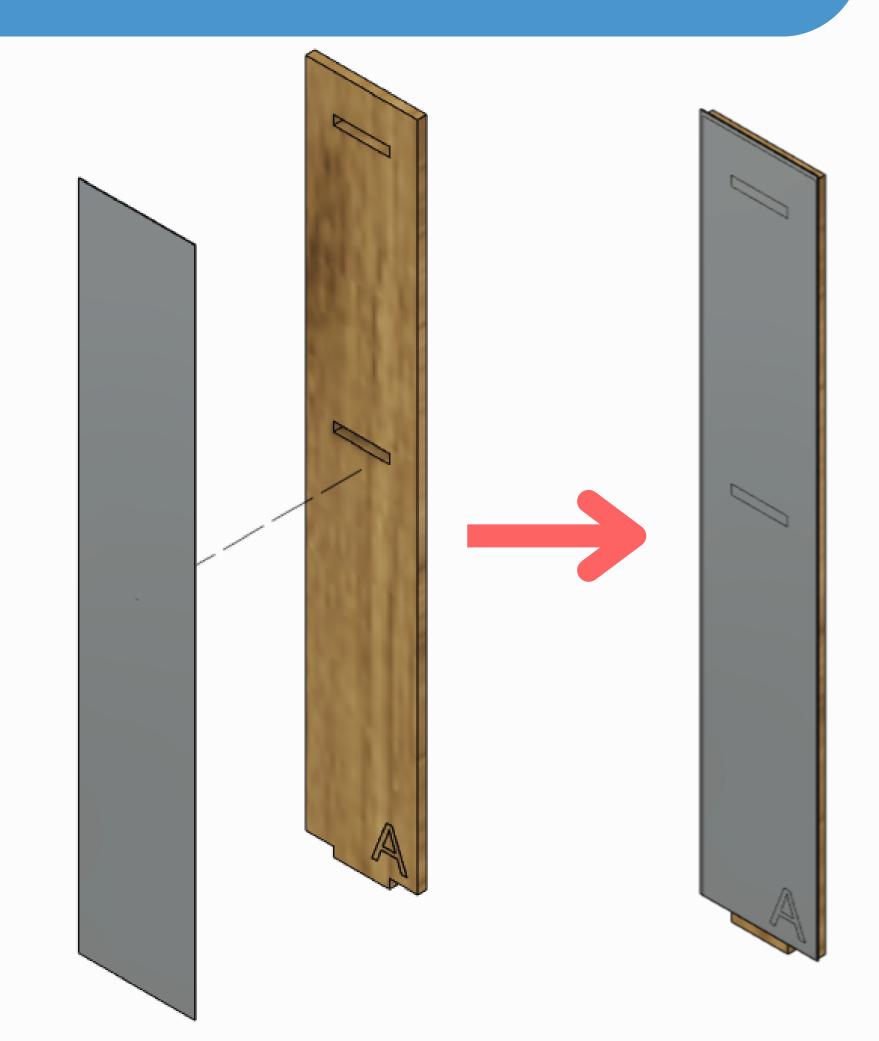


Before adding the Mirror Paper to Part A, make sure that the Mirror Paper is lined up evenly around Part A (there will be some overlap, see image on right). Then, remove the back of the Mirror Paper and stick it to one side of Part A. Remove the blue shield (if any) to reveal the shiny mirrored paper. Repeat this step 3x.



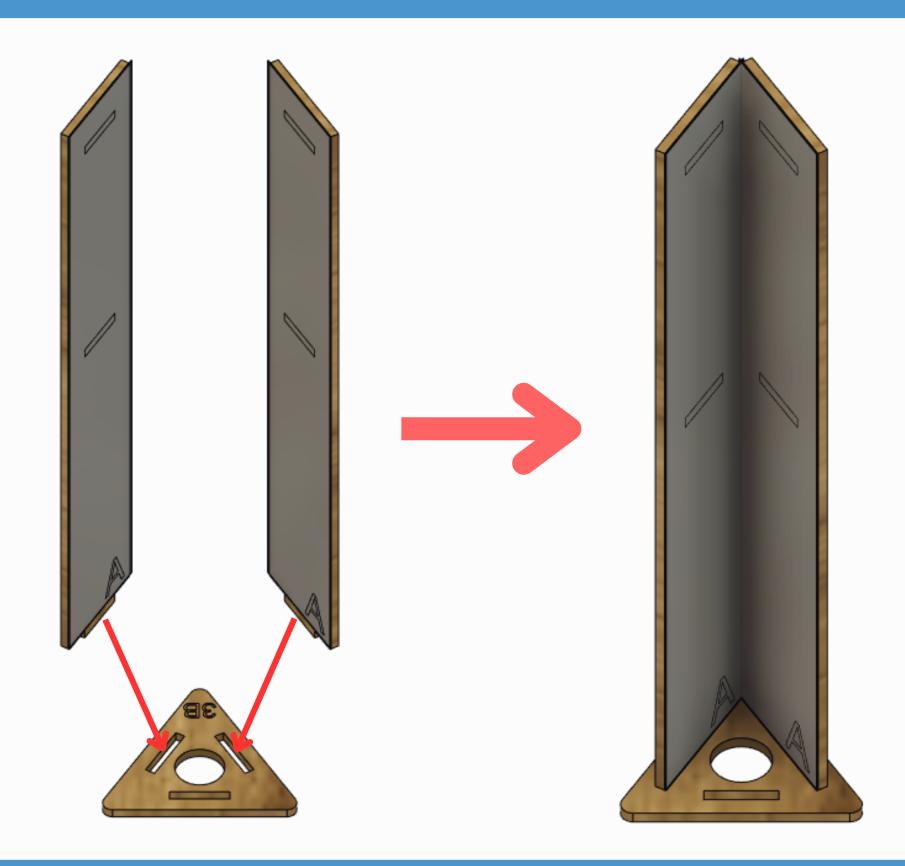


When lining up the Mirror Paper, it SHOULD NOT OVERLAP with the tab at the bottom of Part A. Also, make sure that there is no air bubbles between the Mirror Paper and Part A!



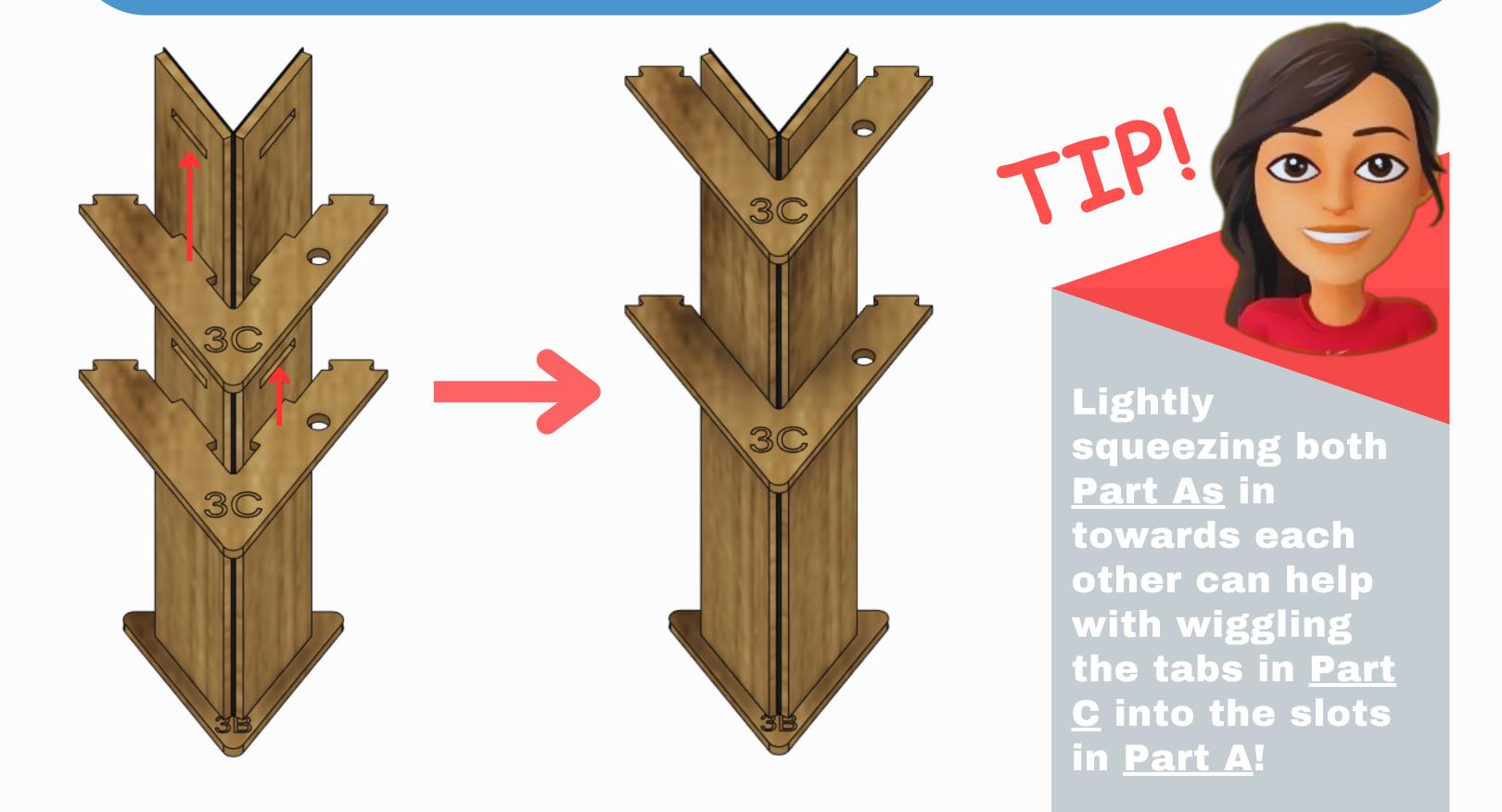


Using 2 of the 3 <u>Part As</u>, add Glue to the tab at the bottom and insert them into two of the rectangular slots in <u>Part 3B</u>. Make sure that the <u>Mirror Paper</u> is <u>facing INWARD</u>.



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Add Glue to the inside tabs of <u>Part C</u>. Starting with the lowest slot in both <u>Part As</u>, insert the inner tabs of one <u>Part C</u> into both slots. Repeat this step for the top slots (make sure the holes in both <u>Part Cs</u> line up).





Using the remaining <u>Part A</u>, add Glue to the tab at the bottom and insert it into the remaining rectangular slot in <u>Part 3B</u>. Make sure that the Mirror Paper is facing INWARD.

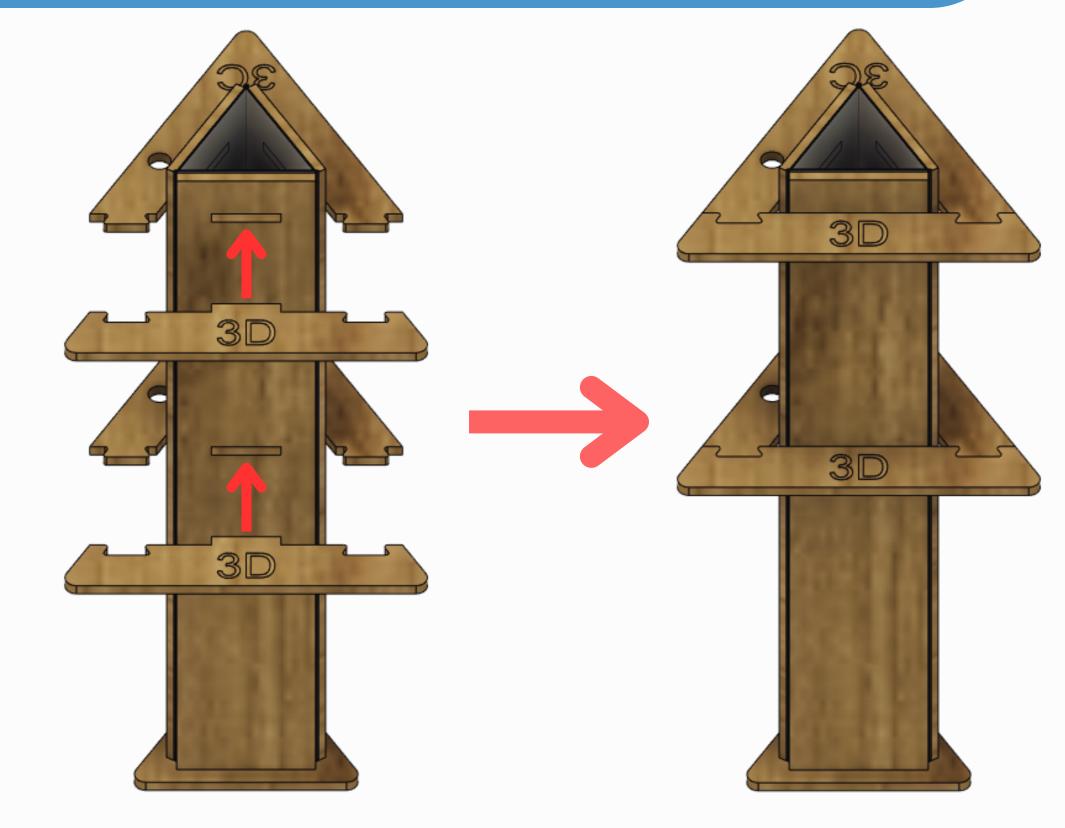


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Add Glue to the inside tab and to the puzzled notches of <u>Part D</u>. Starting with the lowest slot in <u>Part A</u>, insert the inner tab of one <u>Part D</u> into the slot in <u>Part A</u> and connect the puzzled ends of <u>Part C</u> and <u>Part D</u> together. Repeat this step for the top slot.

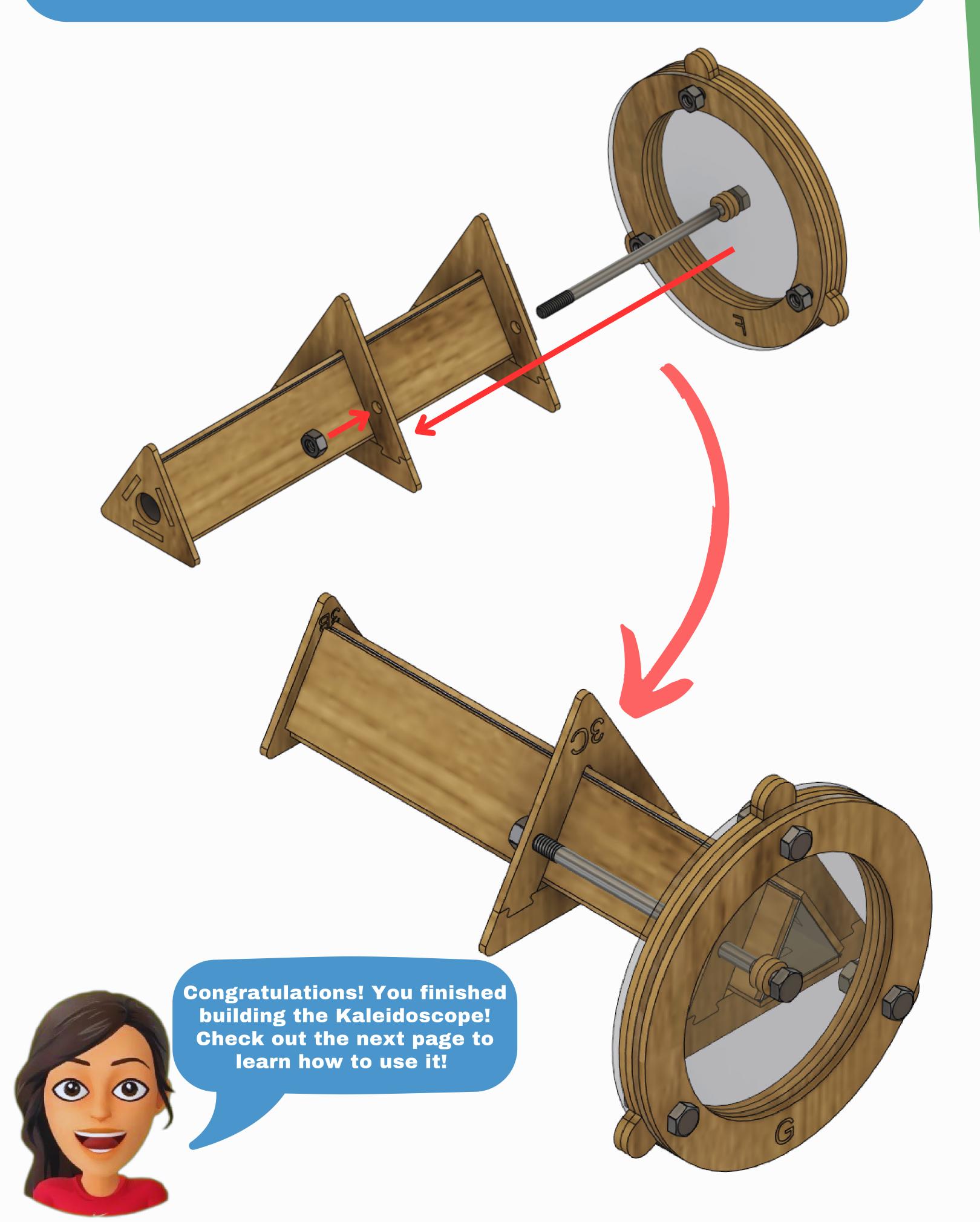


Lightly press
DOWN on both
puzzled ends of
Part C as you
wiggle the tab on
Part D into the
slot in Part A!



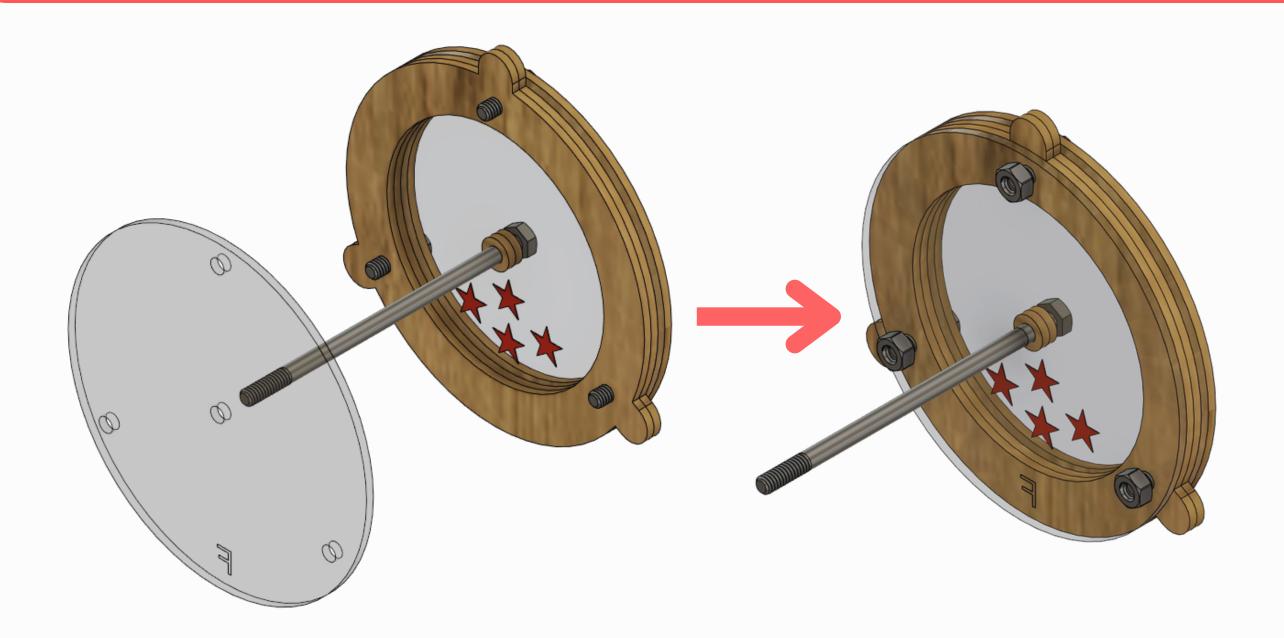
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Slide the neck of the <u>5" Bolt</u> through the holes in both <u>Part Cs</u>. Using the last <u>Hex Nut</u>, twist the <u>Hex Nut</u> along the <u>5" Bolt</u> to tighten it down and lock the Kaleidoscope Assembly in place.

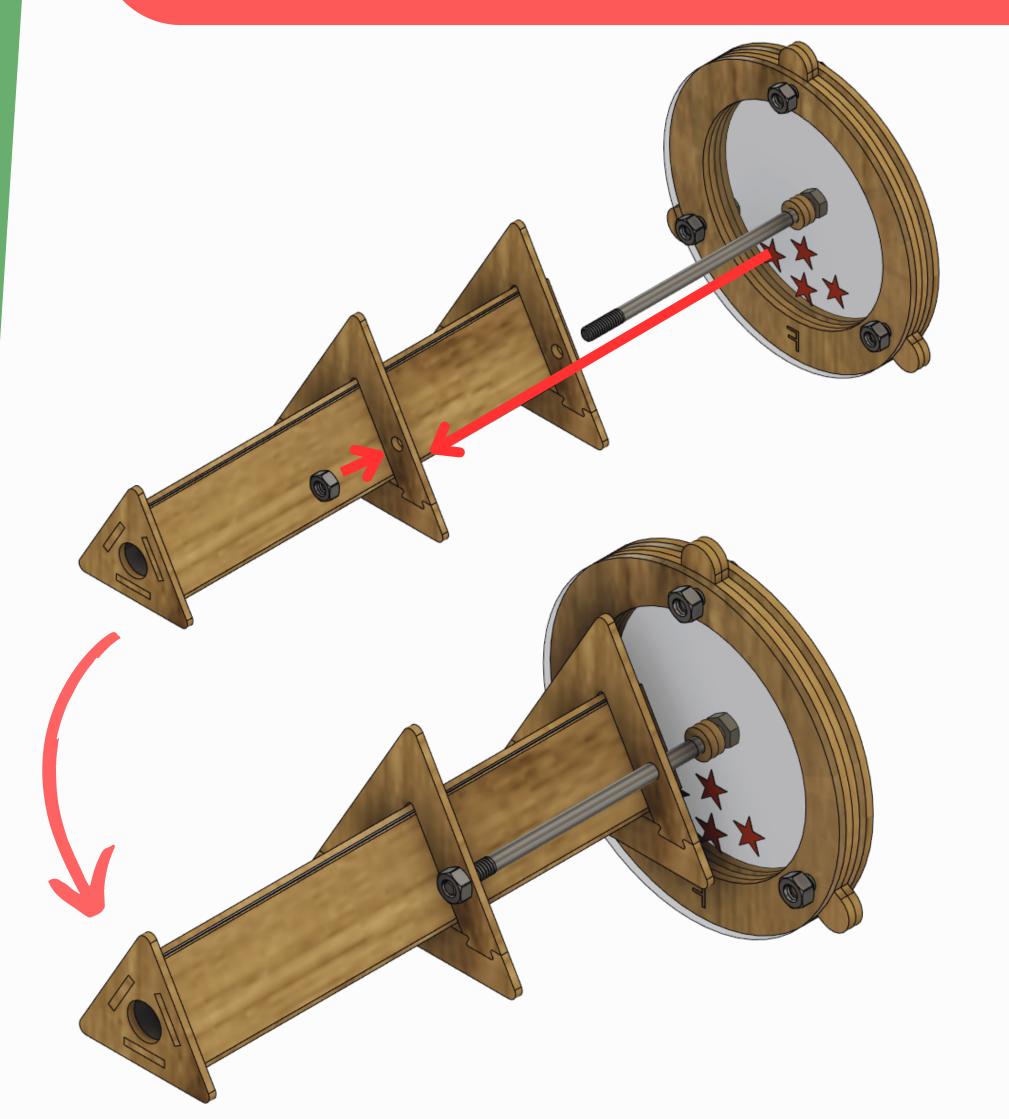


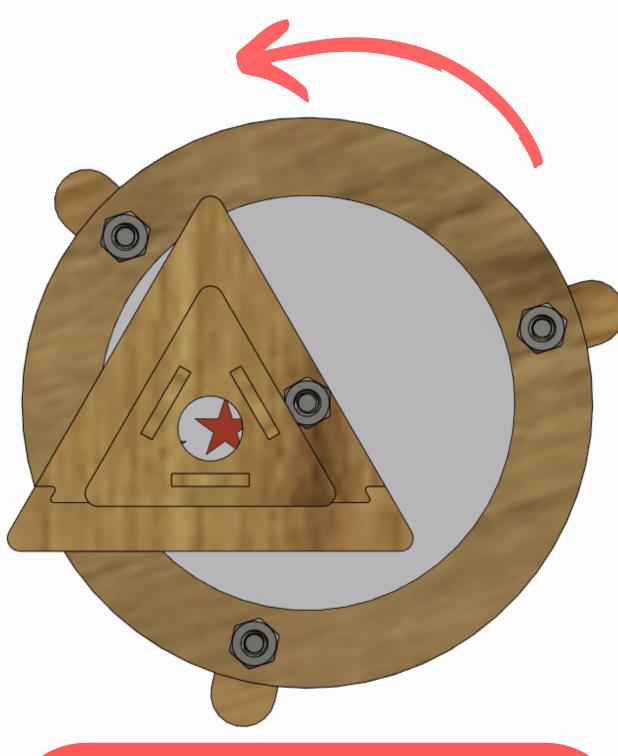
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Add anything you would like to see within the open space of the Window Assembly. Close the Assembly by placing the back Window onto the Asembly and using the Hex Nuts to lock the parts in place.



Attach the Window Assembly to the Kaleidoscope body by sliding the neck of the 5" Bolt through the holes in both Part Cs and then using a Hex Nut to tighten and lock the Assemblies in place.





To use the Kaleidoscope, use one eye to peek through the Eye Piece and use the grips on the edge of the Window Assembly to rotate the Window and watch the magic happen!