



Mask Building Idea

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Coronavirus Method Development Community



ABSTRACT

Our limited findings: This “DIY folding mask” tries to replicate some of the benefits of a n95 mask. It has been saccharin tested by several nurses and an NP. I cannot say these are as effective as a factory n95 mask because of course a real one would be better. But I tested it against a CDC recommended bandana and scarf and it seems to out perform them. It also seems to outperform the surgical mask.

EXTERNAL LINK

<https://drive.google.com/file/d/1YnG0mA6oOrfcToZgRZ81PVn5vJMtpTqa/view?usp=drivesdk>

GUIDELINES

Care: these could be washed or steamed and reused. Do ask your felt manufacturer of the best practices they recommend to wash your specific mask.

MATERIALS TEXT

Felt, elastic, beading wire, flat beading wire, gorilla hot glue, and a glue gun if you don't have one

SAFETY WARNINGS

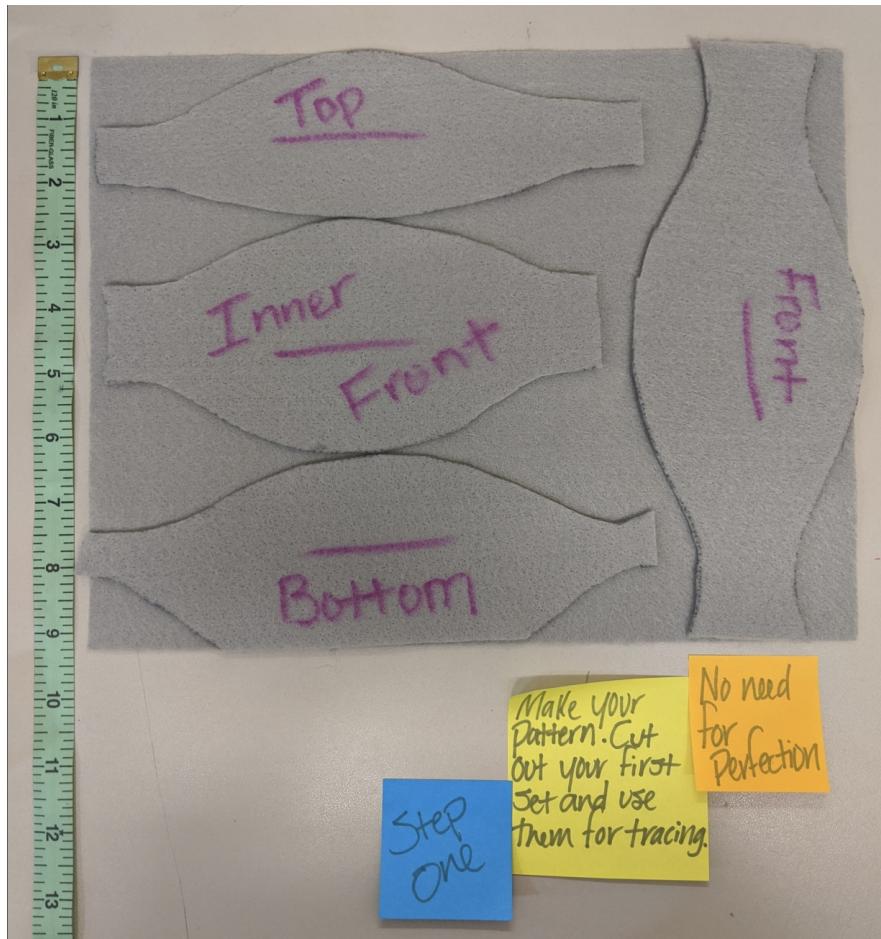
The CDC is calling for people to make masks: “HCP use of homemade masks: In settings where facemasks are not available, HCP might use homemade masks (e.g., bandana, scarf) for care of patients with COVID-19 as a last resort. However, homemade masks are not considered PPE, since their capability to protect HCP is unknown. Caution should be exercised when considering this option. Homemade masks should ideally be used in combination with a face shield that covers the entire front (that extends to the chin or below) and sides of the face.” <https://www.cdc.gov/coronavirus/2019-ncov/hcp/ppe-strategy/face-masks.html>

BEFORE STARTING

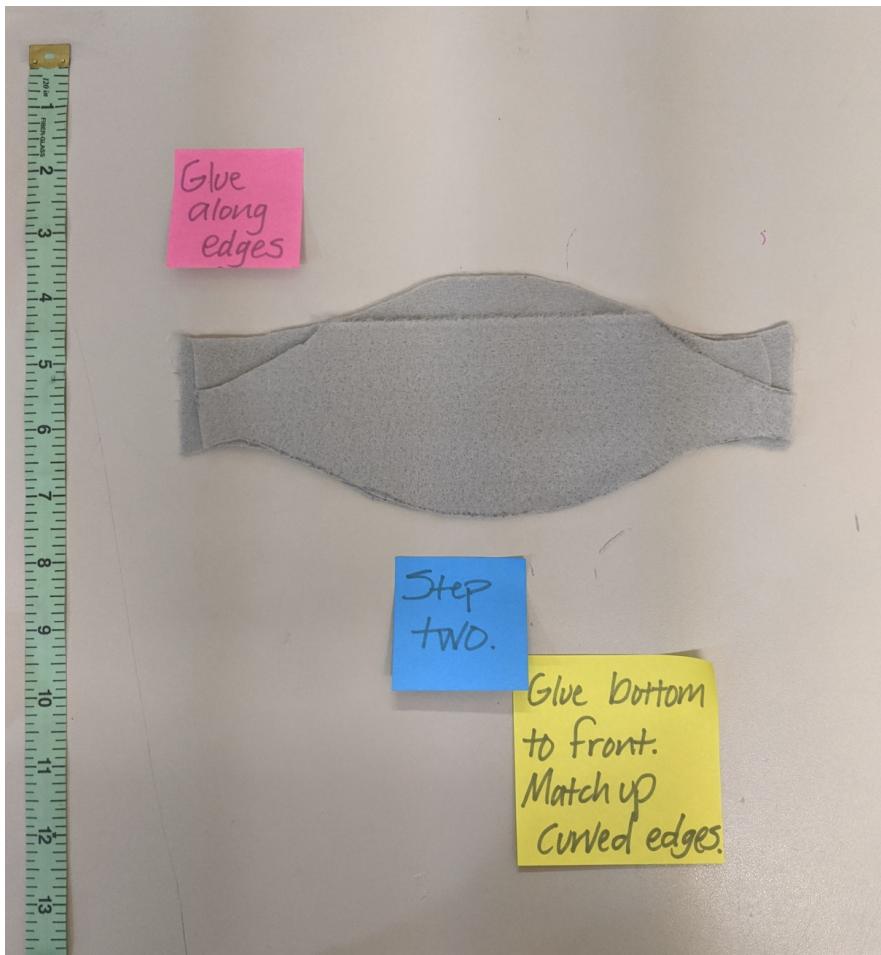


Disclaimer: building a mask following the idea below could potentially help increase protection however **there is no guarantee of such an outcome**. Many variables have an impact on the effectiveness of such a mask. To name a few: materials quality, built quality, and unknowns about the virus. Hence **we cannot take any responsibility of what you decide to do with the idea below. This is a proposed idea that each individual or entity should test before using it while caring for patients.**

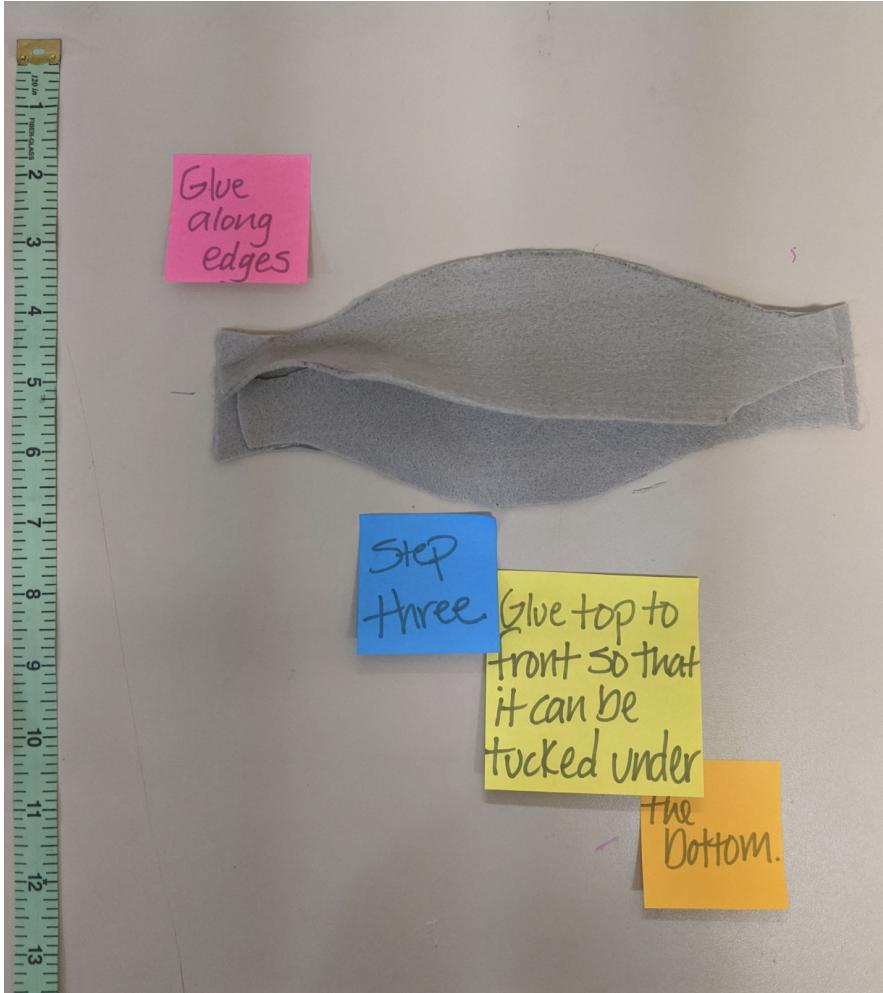
- 1 Make your pattern. Cut out your first set and use them for tracing. No need for perfection. The felt is around 9 x 12 inches. It's not wildly important that the measurements are exact. It's the shapes really. As long as it fits your face.

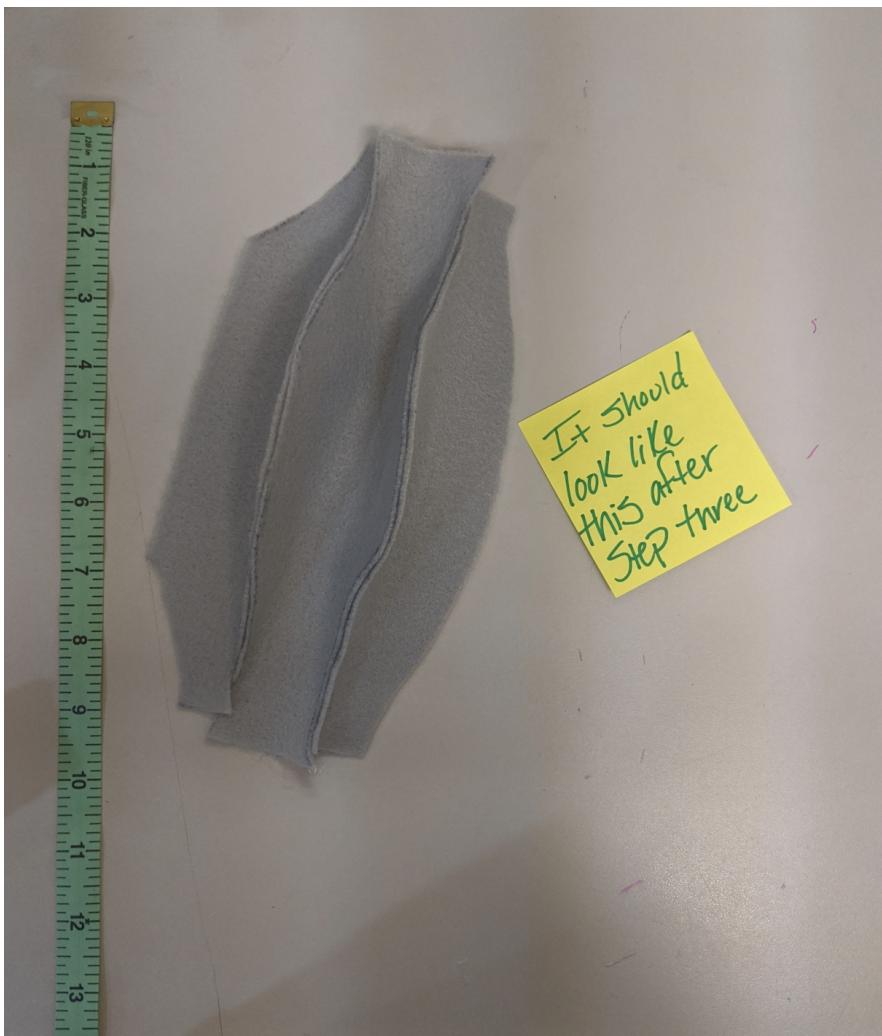


- 2 Glue bottom to front. Match up curved edges.

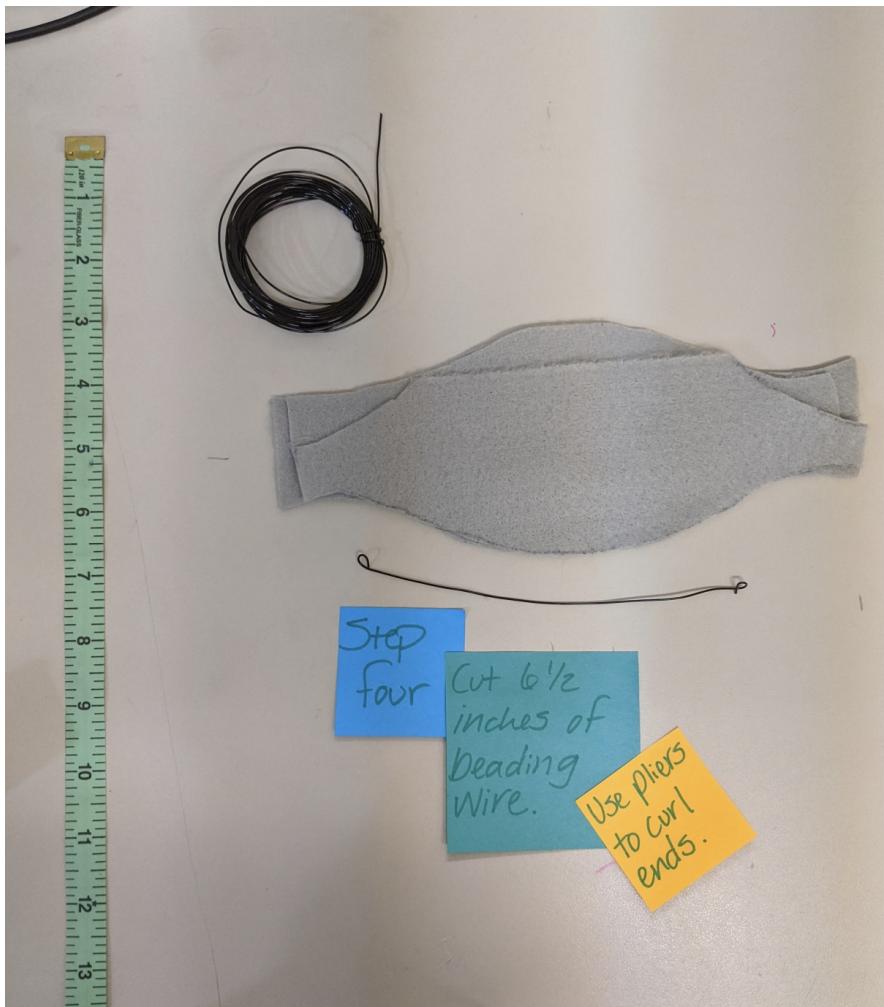


- 3 Glue top to front so that it can be tucked under the bottom. Glue along edges.





4 Cut 6 1/2 inches of beading wire. Use pliers to curl ends.



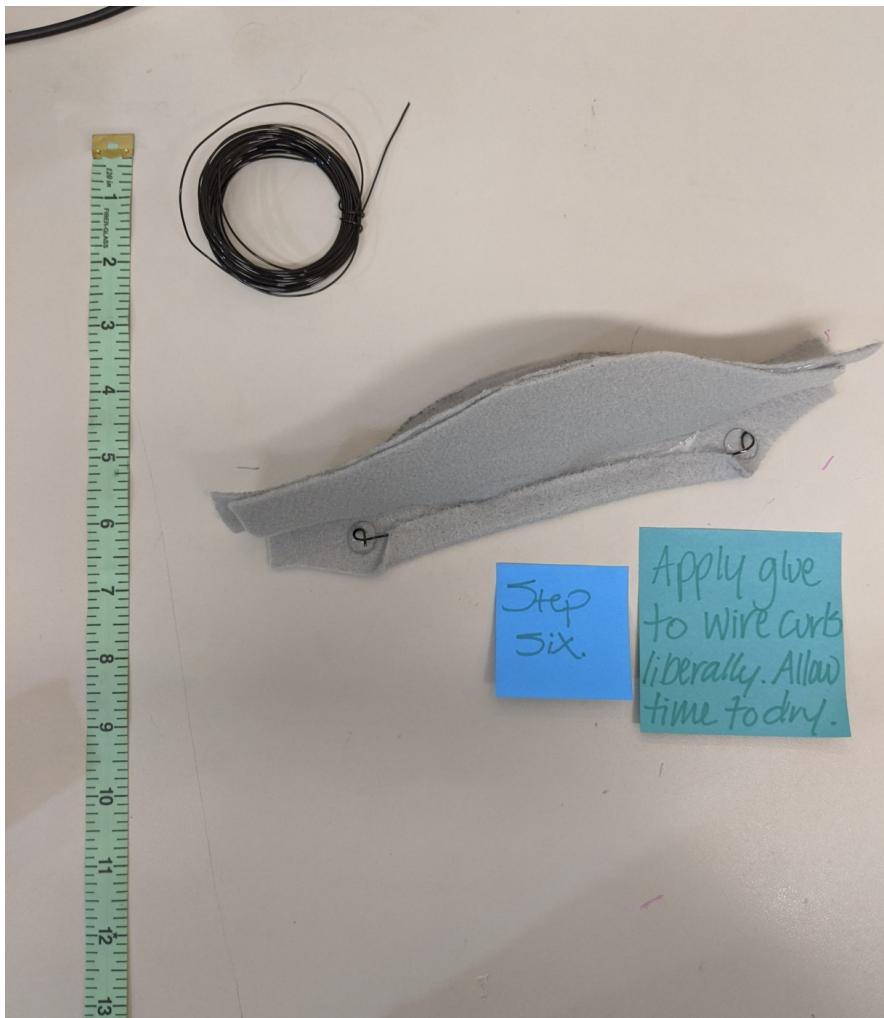
5 Glue wire into bottom part of mask. Glue to edge.



5.1 Fold over



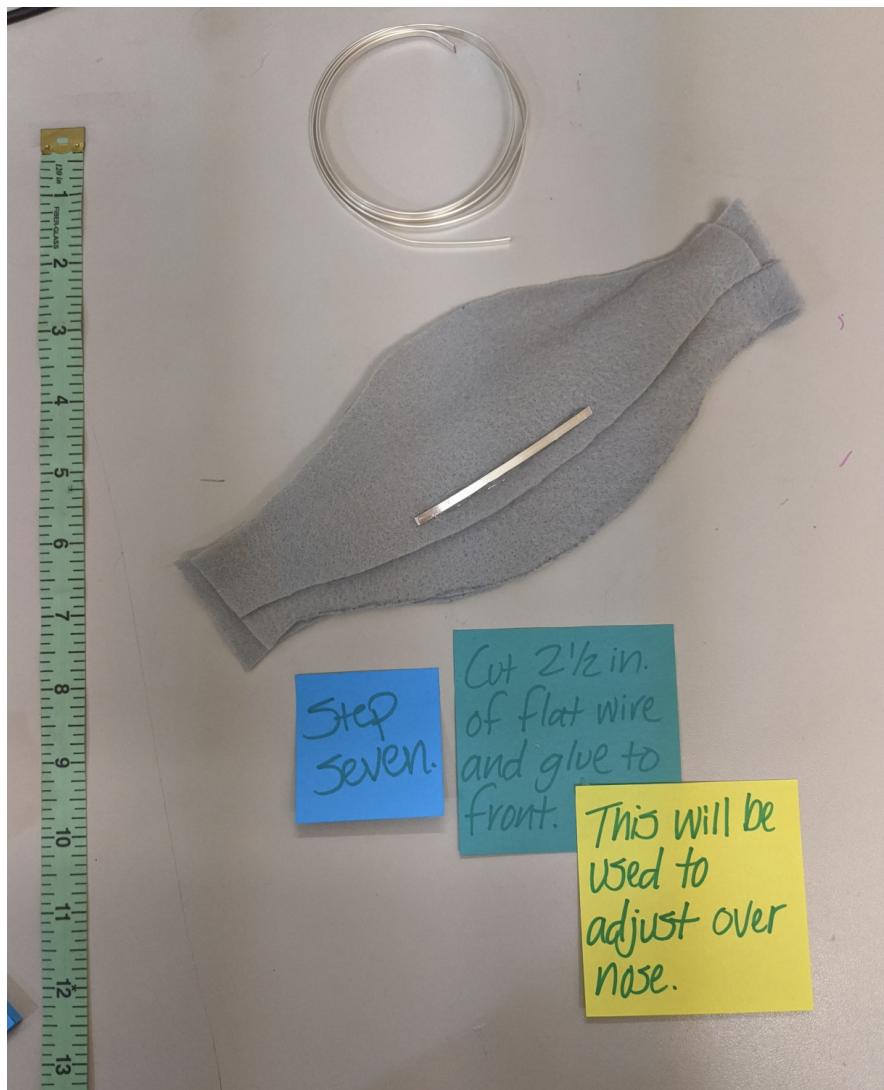
6 Apply glue to wire curls liberally. Allow time to dry.



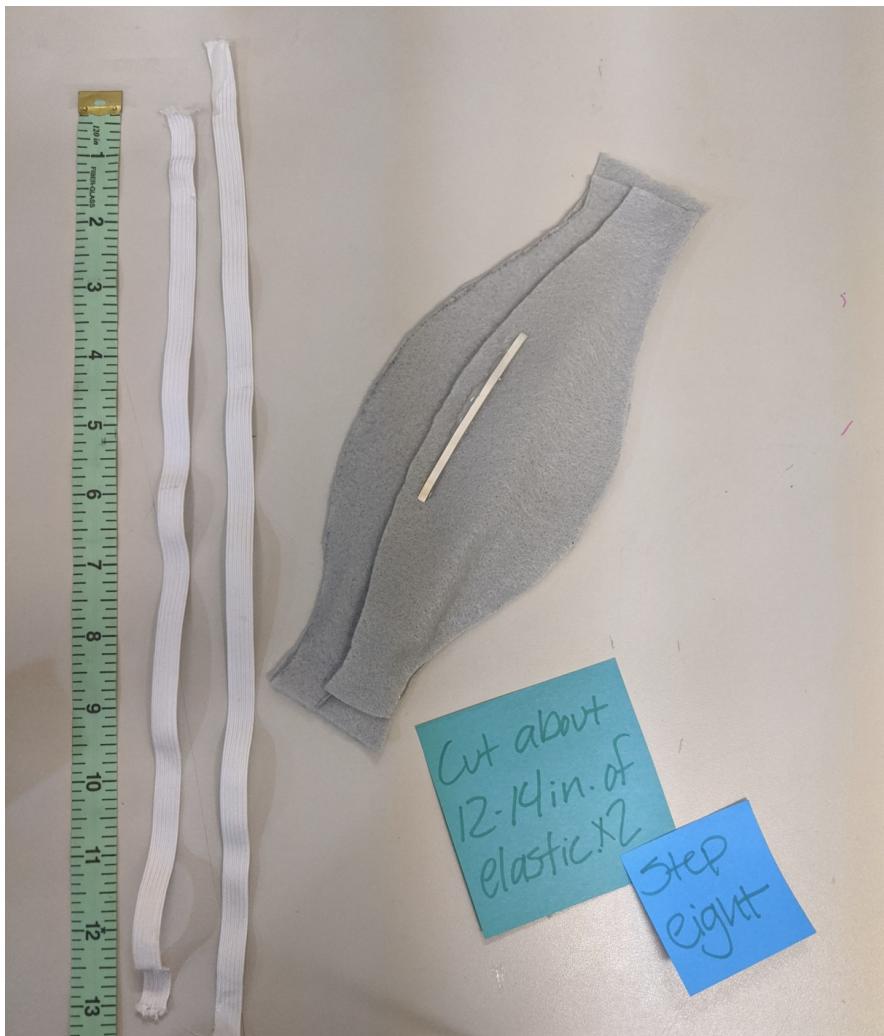
7 Cut 2 1/2 inches of flat wire and glue to front.



This will be used to adjust over the nose.



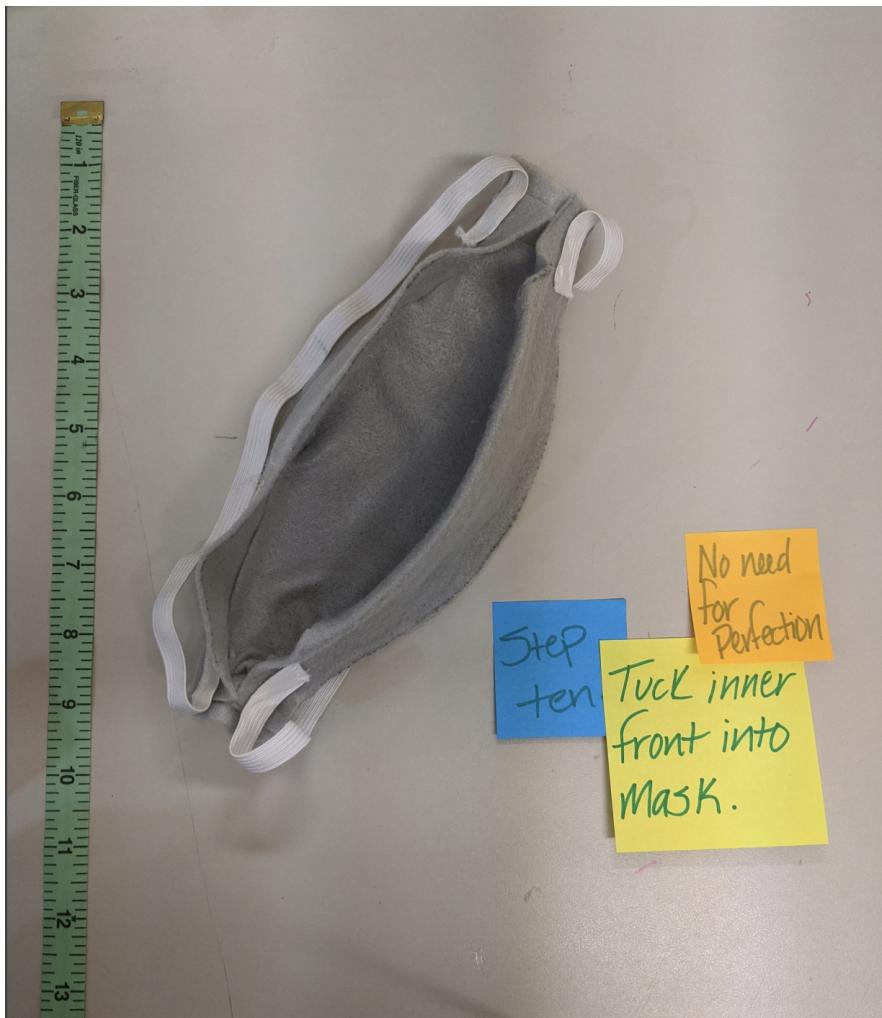
8 Cut about 12 to 14 inches of elastic x 2



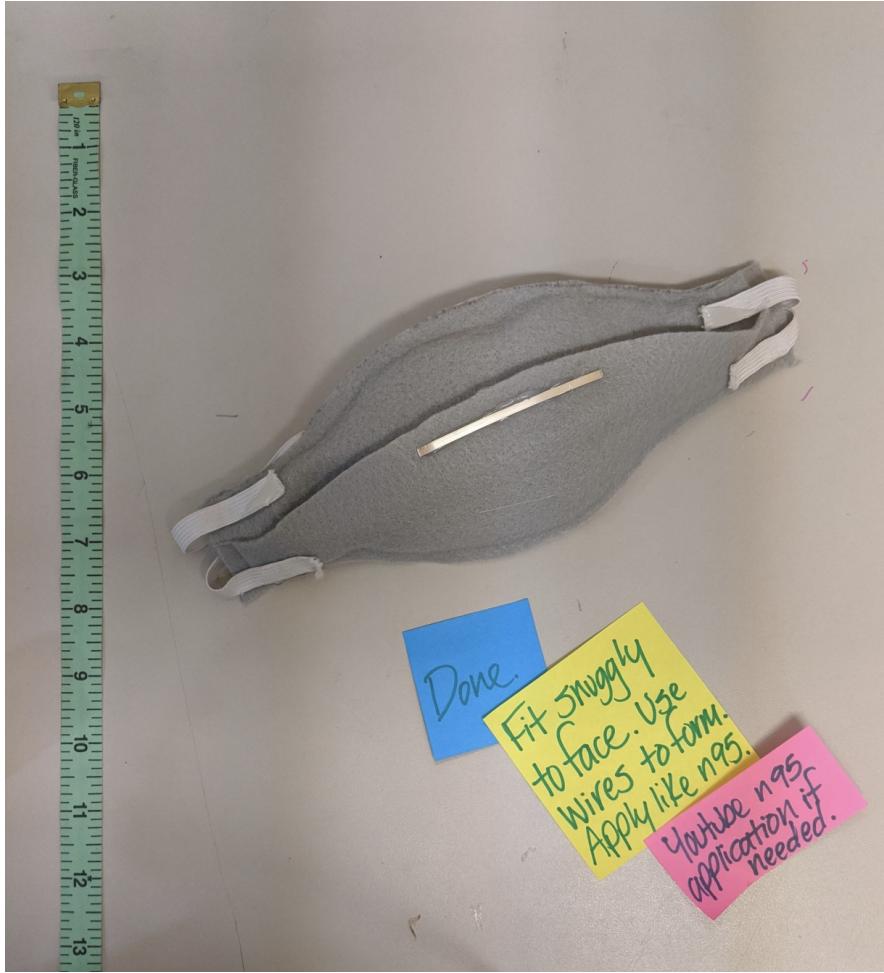
9 Glue elastic to mask.



10 Tuck inner front into mask. No need for perfection.



11 Fit snuggly to face. Use wires to form. Apply like n95. YouTube "n95 mask application" if needed





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