

HEPA filter masks

I used the basic idea from the following video. I did make some slight changes, and I also came up with a pattern for the filter.

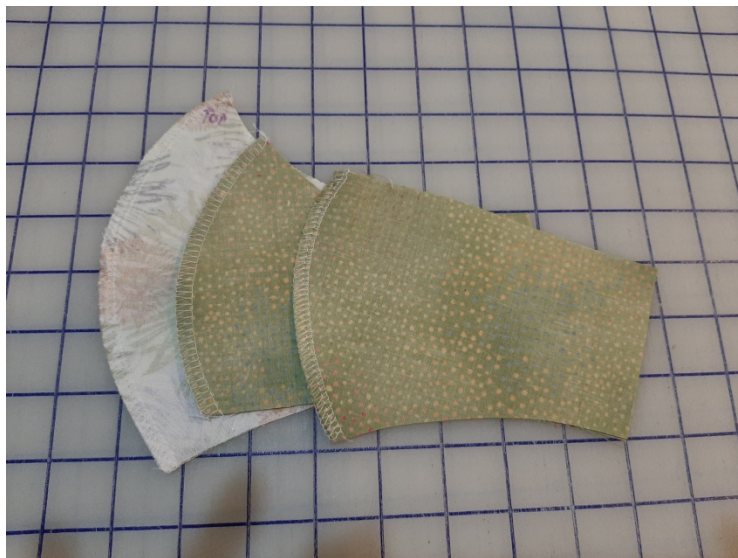
<https://www.youtube.com/watch?v=3U0W0mxja8E&t=2s>

Here is what I did:

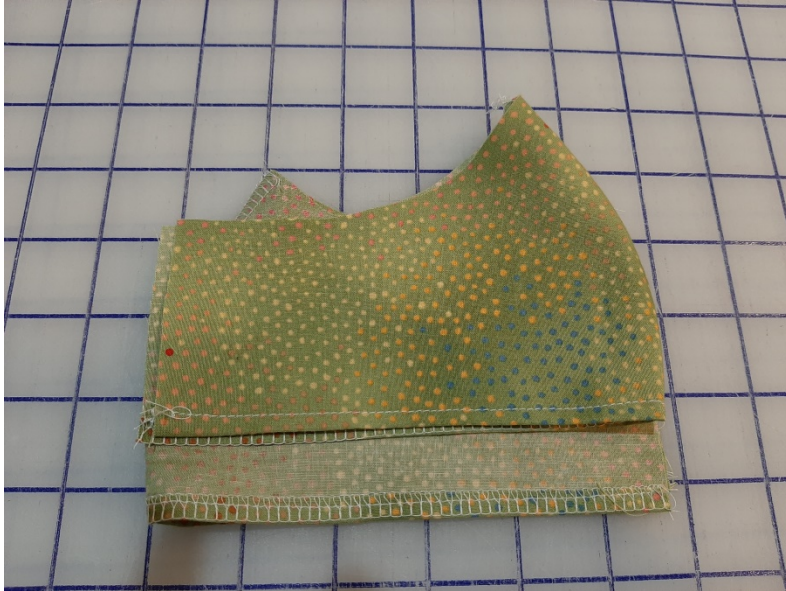
Cut out the pattern pieces, the main fabric and the lining pieces.



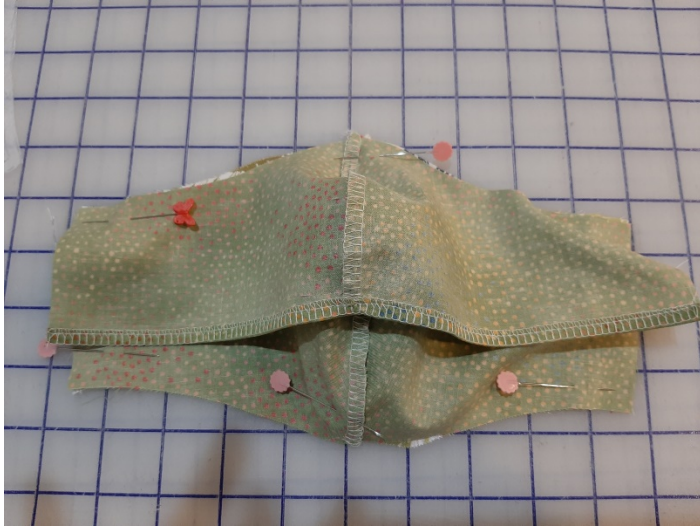
Next sew the front curved seams, right sides together, turn and press. I used my serger with a curve foot. Keep track of the top, it is a bit more curved than the bottom, but sometimes I get confused...



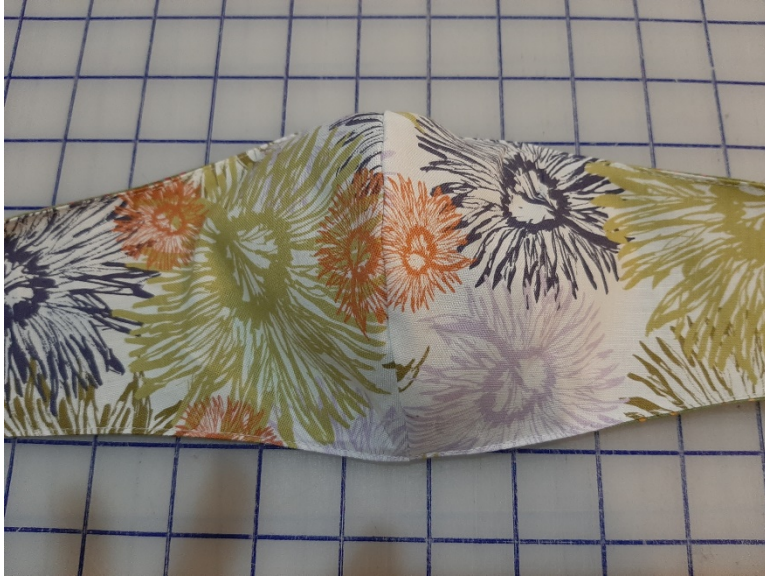
Hem the flat/ straight sides of the lining pieces. I serged the edges then turned them up and topstitched with my machine. You could also just double fold and stitch with your machine if you do not have a serger.



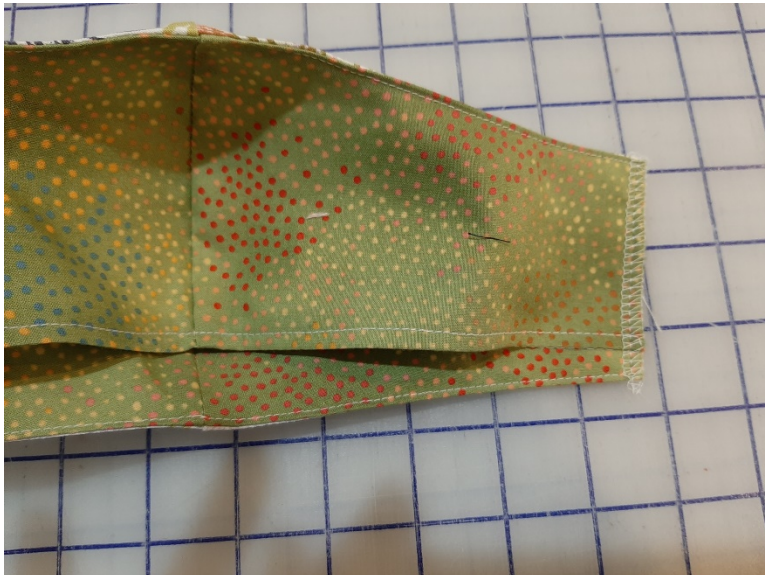
Sew the lining to the main fabric with ¼ inch seams. I used my serger, set up with a 4 thread overlock and a 1/4inch seam allowance, running the edge of the fabric next to the knife. I also used my curve foot to make it easier to sew the curved seam. Make sure that you match the seams and that you sew the top to the top and bottom to the bottom. I try to make sure that the seams are pressed in opposite directions to help reduce the bulk.



Turn right sides out, press and topstitch.



Place the top lining over the bottom, serge or overcast stitch the side edges.



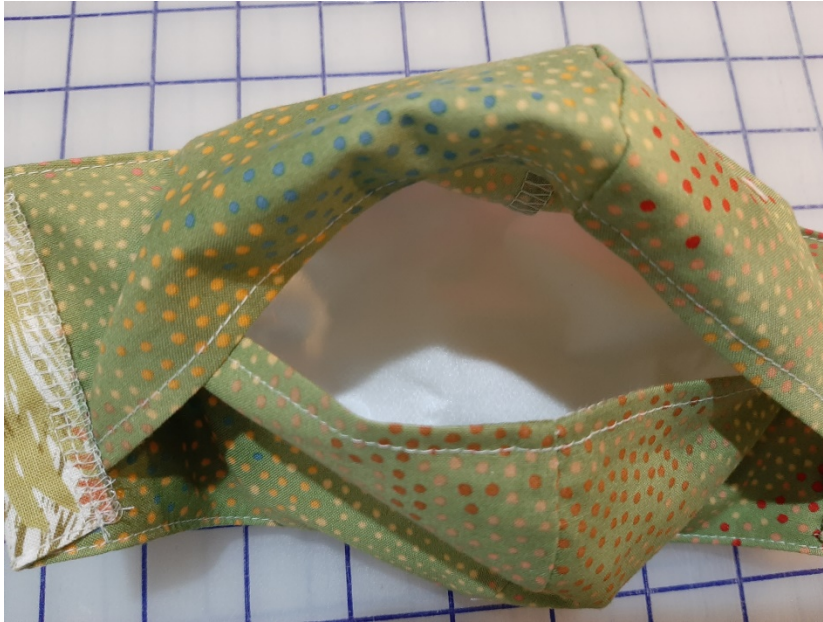
Fold the edges over $\frac{3}{4}$ inch and stitch to create a casing to thread elastic/ribbon/ties.



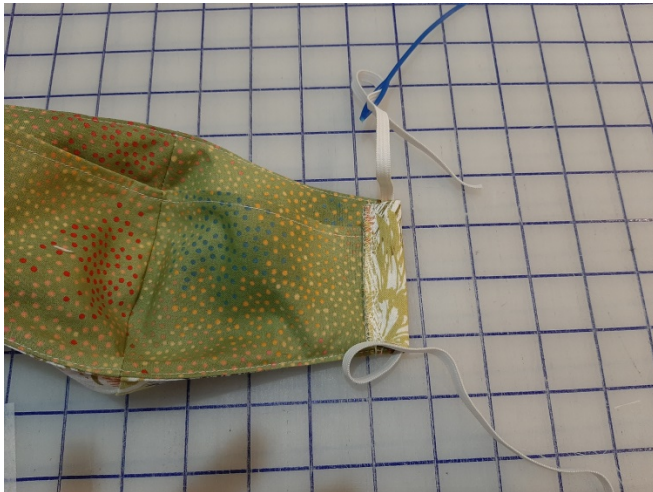
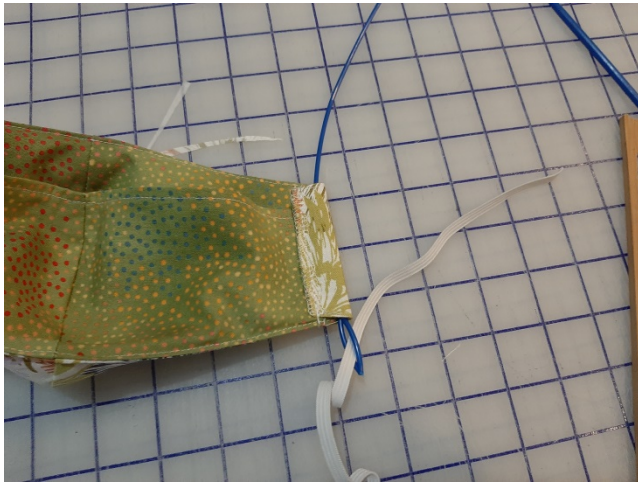
Cut out a filter out of a HEPA vacuum bag. Overcast stitch or serge the edges to keep all the layers together. As you sew you can pinch in a pleat to help the filter fit the mask better. You could also stitch it in after overcasting the edges, or simply tape it down with double sided tape.



Slip the filter into the mask. I also fold a pipe cleaner in half and twist it, then tape it to the front top using double sided tape so the wearer can fit it snugly to their nose.



Thread elastic or ties through the side casings.



When printing out the pattern, do not fit to page or they will be too small. Print at 100%. There is a scale to make sure the size is correct.

