

Face Shield with Apron



The Moog Center for Deaf Education made a decision to use face shields (paired with a Roger remote microphone system) and an attached apron in order to provide students access to lipreading and facial expressions of the adult speakers throughout the school day.

Moog Center staff evaluated current research and recommendations regarding construction of homemade masks for effectiveness (see bulleted list below). The original plan for the apron was to include two layers of quilting cotton and a third layer of silk around the face based on the information available about quilter's cotton and hybrid masks with silk. However, after discussing launderability of the mixed fabrics related to shrinking and wrinkling and how the cotton and silk would not launder similarly over time and repeated washing and drying, it was decided that two layers of quilting cotton would be used with a third layer of 600-thread-count cotton around the face. This decision was made related to information available about high-thread-count cotton and the ability to keep the apron triple layered around the face.

The apron is triple-layered: two layers of quilting cotton create the full apron (mid torso length), with one layer of 600-thread-count fabric around the sides and base of the shield which serves as a third layer of protection around the face. The fabric is attached to the shield with Velcro to limit particle ingress and wraps around the wearer's head and secures with elastic and a button closure. While the draping of the fabric over the torso also allows for sufficient space at the top of the chest **for placement of a remote microphone, the user must ensure the microphone is situated high enough to prevent fabric from rubbing across the microphone ports when the teacher's head moves.**

The Moog Center does not take any responsibility for the degree of protection provided by the modified face shield with apron, as it has not been tested for safety at this time.

These are links to studies/articles about the most effective materials to use when making a face mask:

- <https://www.healthline.com/health-news/best-materials-for-covid19-face-masks>
- <https://www.cnn.com/2020/07/23/health/covid-mask-layers-wellness/index.html>
- <https://www.sciencealert.com/some-masks-are-better-than-others-here-they-are-ranked-best-to-worst>
- <https://royalsociety.org/-/media/policy/projects/set-c/set-c-facemasks.pdf?la=en-GB&hash=A22A87CB28F7D6AD9BD93BBBCBFC2BB24>
- <https://www.businessinsider.com/who-fabric-masks-need-3-layers-to-curb-coronavirus-spread-2020-6>
- <https://news.wttw.com/2020/04/28/study-high-thread-count-cotton-silk-among-best-materials-face-masks>

Constructing an Apron



Are you interested in constructing an apron for your face shield?

Pattern with measurements will be available for instant download:

We are working as quickly as we can to provide detailed step-by-step instructions with pictures of each step and pictures of the pattern to make your own apron. We anticipate this will be available for instant download through [our website](#) early next week (Aug. 10 or 11, 2020).

Receive an email when the pattern is available:

If you have received this document by email, [Amanda](#) will email you when the pattern is available.

If you have been forwarded this document and wish to be notified when the pattern is available, [click here](#).

Read [our full White Paper on face coverings](#).

Read [the Appendix for more about the Face Shield with Apron](#).