

Simple Face Shield Construction for COVID-19 Relief: Three Piece Face Shield
By Jessica Leung, M.D. and Nicholas Bacher, M.D.

*This face shield design was adapted from this Michaels' **Acetate Face Shield** tutorial:*

<https://www.michaels.com/diy-face-masks-and-shields/acetate-face-shield/acetate-face-shield>

Supplies List:

Supply	Specific Item	Link
Plastic Sheet	Slippery UHMW Polyethylene Film	https://www.mcmaster.com/plastic-sheets/thickness~0-007inches/
Adhesive Foam	3/8 in. x 17 ft. Foam Weatherstrip Tape	https://www.homedepot.com/p/M-D-Building-Products-3-8-in-x-17-ft-Foam-Weatherstrip-Tape-02253/100353460
Cloth Ties	Symphony Broadcloth Polyester Blend Fabric Solids	https://www.joann.com/symphony-broadcloth-solid-quilt-fabric/prd10006.html
Stapler		
Staples		
Ruler		
Glue	Gorilla Glue 3.75 oz Bottle Clear	https://www.joann.com/gorilla-glue-3.75-oz-bottle-clear/16649618.html?q=gorilla%2Bglue&start=1
Scissors		
Marker	Sharpie	https://www.sharpie.com/all-markers/classic/super/SHSuperBlackFine
Gloves	Latex/Nitrile/Cloth Gloves	

Construction and Assembly Guide:

Plastic Sheet

1. **Don gloves to avoid leaving fingerprints on plastic**
2. On a large, flat surface unroll a portion of the plastic roll
3. Draw on template design for face shield with marker
4. Cut plastic sheets and store
5. Repeat steps 1-4 until finished cutting plastic roll into individual plastic sheets

Foam

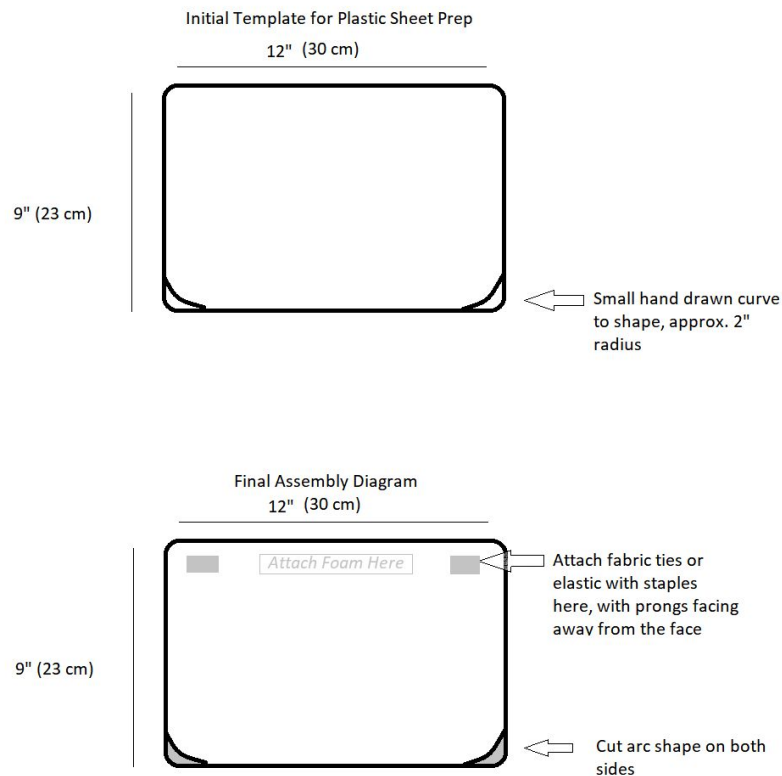
1. Cut foam into 6 inch strips
2. Repeat until finished

Cloth Ties

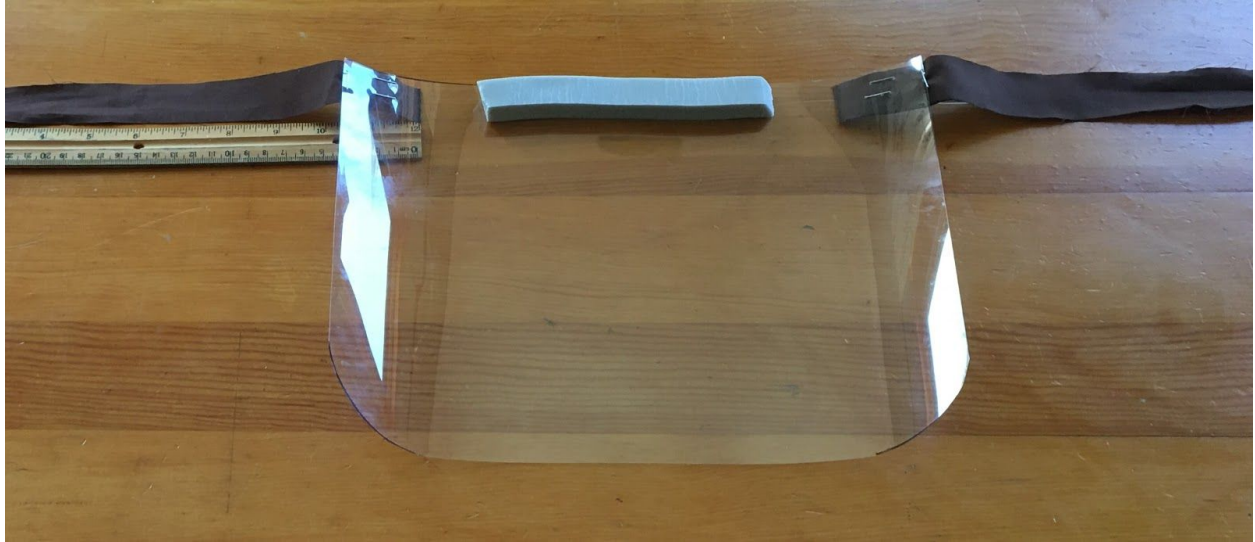
1. Using ruler, measure strips to be 1" wide and approximately 45" long
2. Cut strip from fabric
3. Take cut strip and cut it in half lengthwise to result in two strips that are 1" wide and 22.5" long
4. Repeat until finished with fabric.

Assembly (see diagram below)

1. **Don gloves to avoid leaving fingerprints on plastic**
2. Attach foam at top of plastic sheet on side without rounded edges
3. Staple cloth strip at top corners of plastic sheet without rounded edges
 - a. Ensure that staple prongs are facing away from wearer's face



Example of Finished Product:



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