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:**

<table>
<thead>
<tr>
<th>Supply</th>
<th>Specific Item</th>
<th>Link</th>
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</thead>
<tbody>
<tr>
<td>Plastic Sheet</td>
<td>Slippery UHMW Polyethylene Film</td>
<td><a href="https://www.mcmaster.com/plastic-sheets/thickness~0-007inches/">https://www.mcmaster.com/plastic-sheets/thickness~0-007inches/</a></td>
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<tr>
<td>Adhesive Foam</td>
<td>3/8 in. x 17 ft. Foam Weatherstrip Tape</td>
<td><a href="https://www.homedepot.com/p/M-D-Building-Products-3-8-in-x-17-ft-Foam-Weatherstrip-Tape-02253/100353460">https://www.homedepot.com/p/M-D-Building-Products-3-8-in-x-17-ft-Foam-Weatherstrip-Tape-02253/100353460</a></td>
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<tr>
<td>Stapler</td>
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<tr>
<td>Staples</td>
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<td>Ruler</td>
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<td>Scissors</td>
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<tr>
<td>Gloves</td>
<td>Latex/Nitrile/Cloth Gloves</td>
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**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:

[Image of a clear face shield with black elastic bands]

Acknowledgements:

This project was supported by a donation from Dean Jerry Nadler, M.D., of New York Medical College and his family.

This would not have been possible without the efforts of the entire construction team, including: Marie Ascher, Lillian Huang, Erva Khan, Mathias Palmer, Ruby Patel, Carly Roe, Nicolas Sanchez, Dean Anthony Sozzo, Naveena Sunkara, and Bertie Zhang.

Special thanks to Dr. Michael Blotner, M.D., and Dr. Ilya Rybkin, M.D., for their efforts in the assembly process.