

Double-Cone Maker

Use two of these patterns to make a double-fluted cone to investigate conic sections.

1. Cut out the square below, then cut out the light grey region around the circle.
2. Cut on the radius shown. Stop at the center!
3. Repeat this for the second square.
4. Overlap the cut-outs by sliding the cut radii together. You should end up seeing a white circle on top of a dark grey square. Flip this over and tape the seam together made by the two triangles.
5. Now flip it with the circle up. Roll each semicircle into two separate cones and tape it on the slant height.
6. Finally, fold 1 inch of the white line one each side and put a staple at the end to make the cones sit right.

