

# MAKE YOUR OWN MAA CENTENNIAL HEXAHEXAFLEXAGON

Step 1: Print out the hexaflexagon net pattern on either sides of a page, making sure the TOP sides agree.

Step 2: Cut out the pattern so that you have three strips of 7 triangles each.



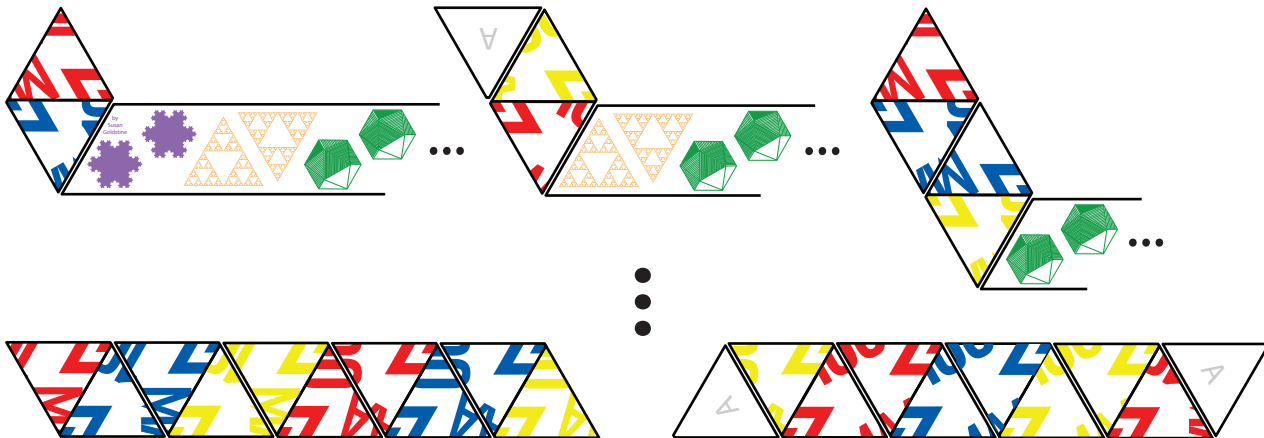
Step 3: Glue or tape tabs C together and tabs B together to make one long strip. (In fact, you can pick any two letters you like, as long as connected tabs match.)



Step 4: Flip the strip so that the orange, green and purple side is up.



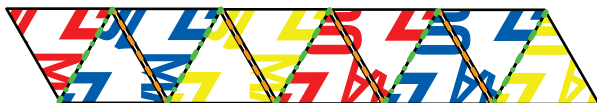
Step 5: Wherever there are two matching orange, green, or purple designs next to each other, fold the strip so that the matching designs touch. The more carefully you fold along the black folding lines, the smoother your flexing will be.



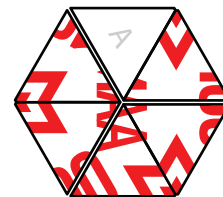
Step 6: Crease the remaining joints as marked.

.....  
mountain fold

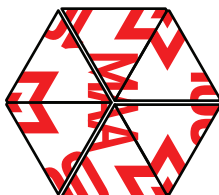
-----  
valley fold



Step 7: Fold the adjacent pairs of blue triangles so that they touch.



Step 8: Move the letter tab from the top layer to the bottom layer and glue or tape it to its mate.



Step 9: Flex!

Steps 10, 11, 12, etc: See step 9.

*Design and instructions by Susan Goldstine,  
Professor of Mathematics, St. Mary's College of Maryland*