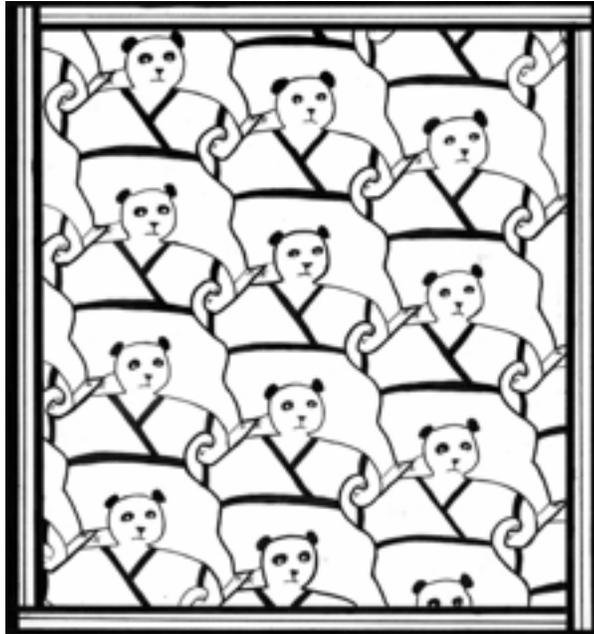


CREATIVITY IN MATH WITH TESSELLATIONS

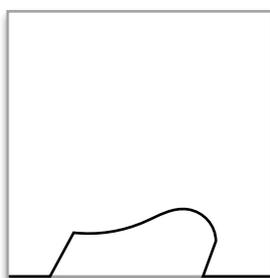


CREATIVITY IN MATH: TESSELLATIONS

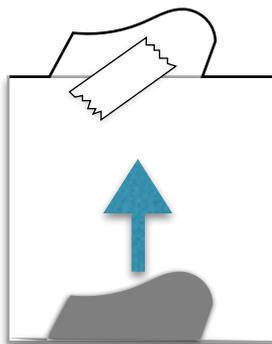
This learning center is to show you how creativity and math can come together in the form of a tessellation. A tessellation is a two dimensional piece of art or tiling in which the pieces interlay with each other in a pattern with no overlays or gaps.

Follow the steps below to create a simple tessellation with a square pattern.

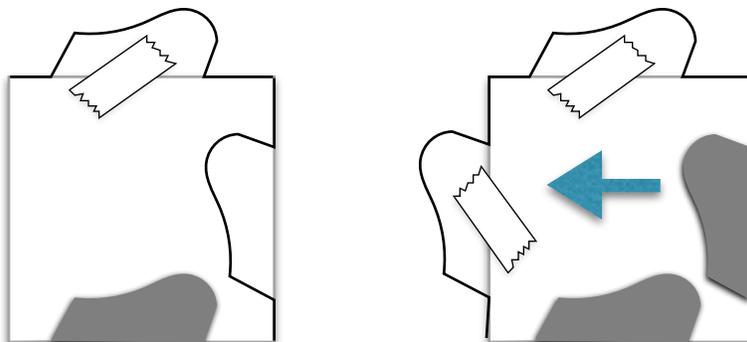
- 1) *Cut out the square provided on the next page.*
- 2) *Draw this shape on the bottom (it is okay if it is not exact).*



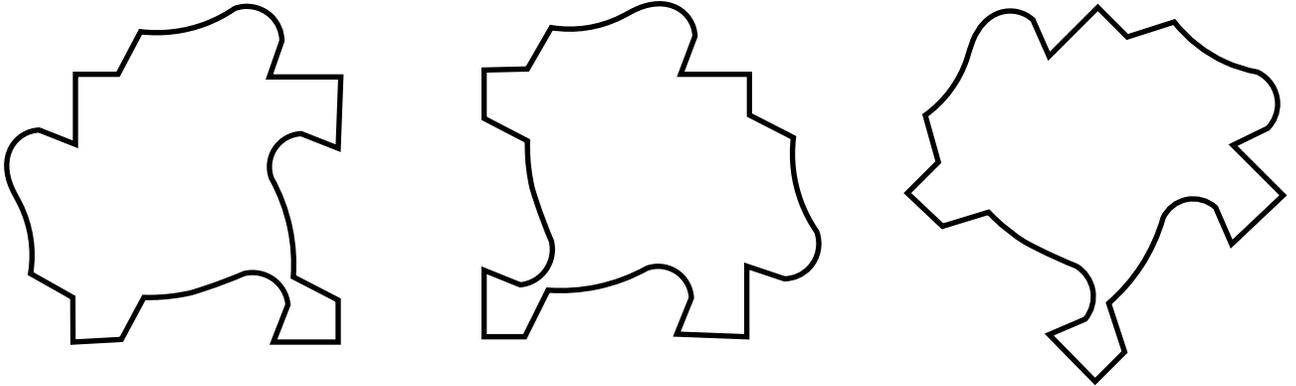
- 3) *Next, cut the shape out very carefully.*
- 4) *Now, slide the shape up and tape it to the top of the square. Make sure it is in the exact same place as it was in the bottom.*



- 5) *Draw the same shape on the right side of the square, cut out, and repeat #4 by sliding it to the left and taping it down.*



- 6) Now look at the shape you have created. Turn it around, upside down, and/or diagonally. Make a list of all the possible things it could become. List a minimum of 10 different things that are not in the same category.



- 7) In the center of a white sheet of paper lay your shape down and trace it.
8) Lift up the shape and slide it into the nooks of the drawing where it fits like a puzzle piece and trace the shape again.
9) Repeat this until the entire page is a tiled surface of your shape.
10) Choose your favorite idea from your list that you made in #6 and draw it in each shape.
11) Illustrate and color!

***You can experiment as well. The shape you cut off each side doesn't have to be the same shape. If this was too hard, make the shapes that you cut simpler.*

Here is an example of one being created.

