

TESSELTION DRAWINGS



minutes



difficulty

Tools & Materials:

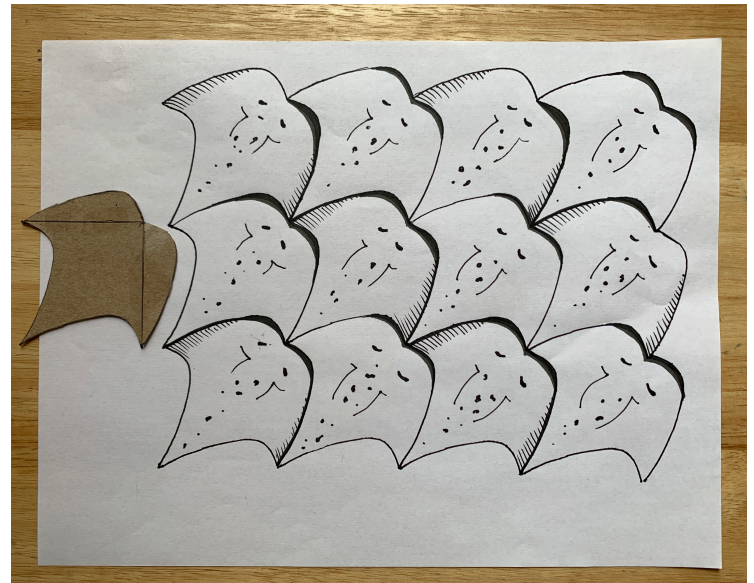
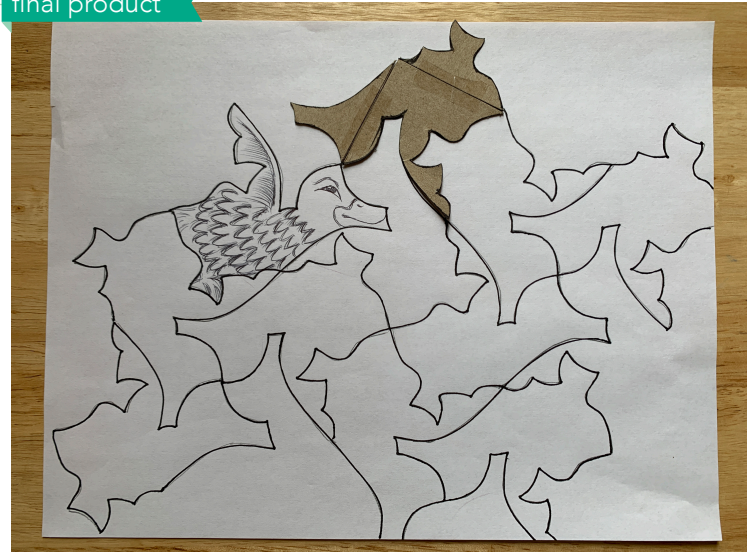


- Pencil & paper
- 2"x2" or 3"x3" square of cardboard
**Cereal box cardboard is perfect, thin but stiff enough to trace*
- Markers to decorate
- Tape & Scissors

Description:

In nature, tessellations are seen in the patterning of flowers, dragonfly wings, and honeycombs. From protection to storage, the patterns typically have a purpose. The geometric patterning and inspiration from nature have been used in design for thousands of years by cultures all over the world. Humans have used this method of tiling for flooring, pavement, wall coverings, clothing textiles, and much more! Can you find tessellated patterns around your home?

final product



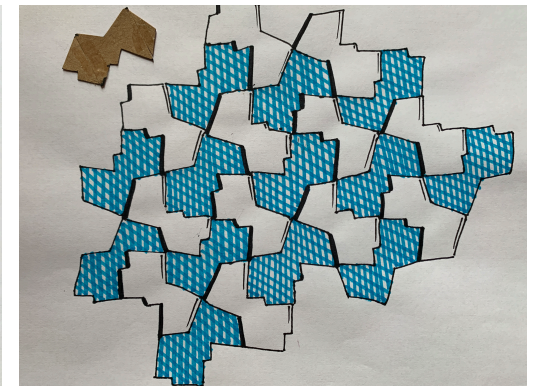
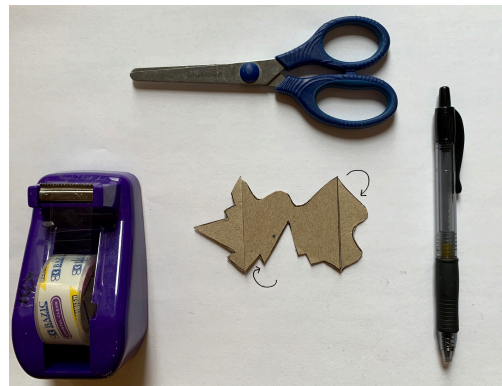
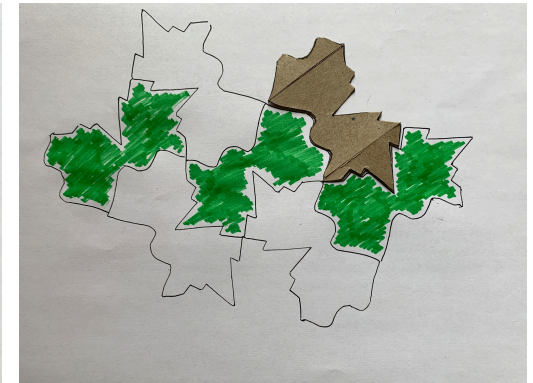
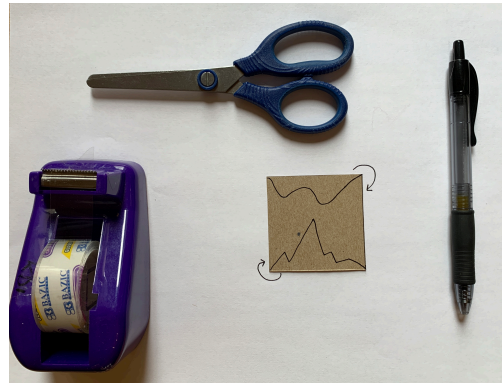
Directions:

- 1 Start with a square of cardboard.
- 2 Draw an interesting line from one corner to the other along the top edge. Repeat for the bottom edge. Cut a piece from one side and tape it to a neighboring side.
- 3 Carefully cut along your lines. Tape each piece to a neighboring side.
- 4 Trace the tile and see how the design fits together.
- 5 Decorate with markers!

Experiment:

- Take another square of cardboard and see what happens if you attach your cut sections on opposite sides of your tile.
- Try to create a tile shape that looks like an animal.

Submit your tessellation designs to
AtHome@discoveryworld.org
for a chance to have your design
featured by Discovery World!



Get Inspired!

The human brain is drawn to patterns, and finding patterns is how we start to learn about math! M. C. Escher, a world-famous graphic artist, created thousands of designs based upon mathematical patterns. Explore his gallery here:

<https://mcescher.com/gallery/>