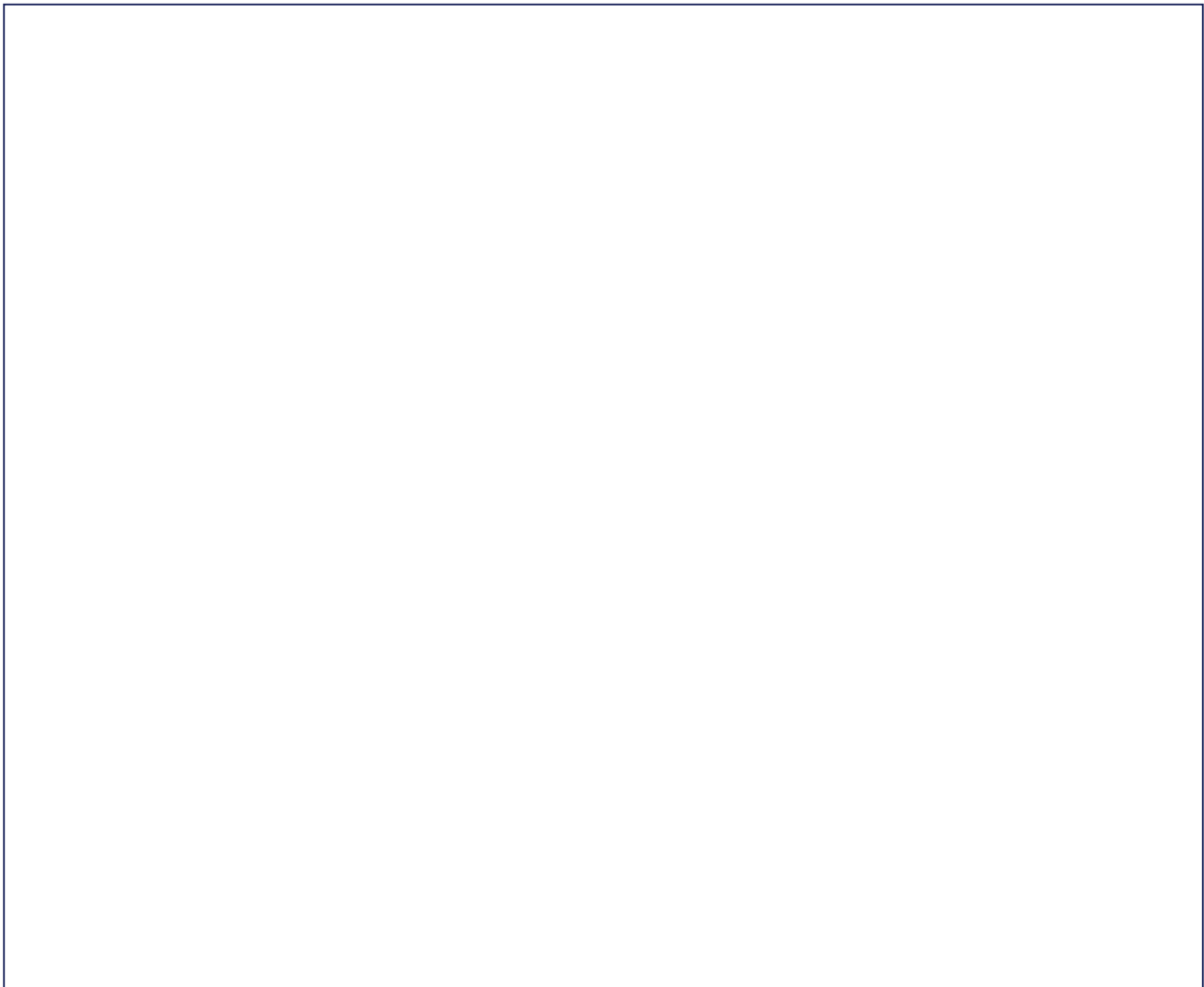


Zara's Pattern Explorer: Geometric and Organic Designs

Learning objective: To explore and create intricate patterns using geometric and organic shapes, inspired by the natural world and mathematics.

Follow the steps below to design your own pattern-filled masterpiece. Zara the zebra loves how patterns can be found in everything from a butterfly's wing to a tiled floor. Use your pencil, ruler, and fineliner to complete the tasks.

Draw: Create a split-design pattern sheet. On the left side, construct a precise, geometric tessellation using hexagons and rhombi. Ensure all lines are straight and the shapes interlock perfectly. On the right side, create a fluid, organic pattern using swirling lines, petal shapes, and irregular curves. Incorporate 'contrast' by making the geometric side dark and sharp, and the organic side light and flowing.



Label words: Symmetry · Tessellation · Geometric · Organic · Repetition · Motif · Interlocking · Contrast

Steps:

1. Explain why a square would make a better shape for a tessellation than a circle. Justify your answer using your knowledge of shapes.
2. Compare and contrast an organic pattern found on a leaf with a geometric pattern found on a brick wall.

How do they differ in appearance?

3. What might happen to the visual balance of your design if you used only one colour but changed the size of your motifs?
4. Step 1: Use a ruler to divide your page into four equal quadrants.
5. Step 2: In the top left quadrant, draw a repeating geometric motif using only triangles.
6. Step 3: In the bottom right quadrant, draw an organic pattern inspired by the spiral growth of a snail shell.