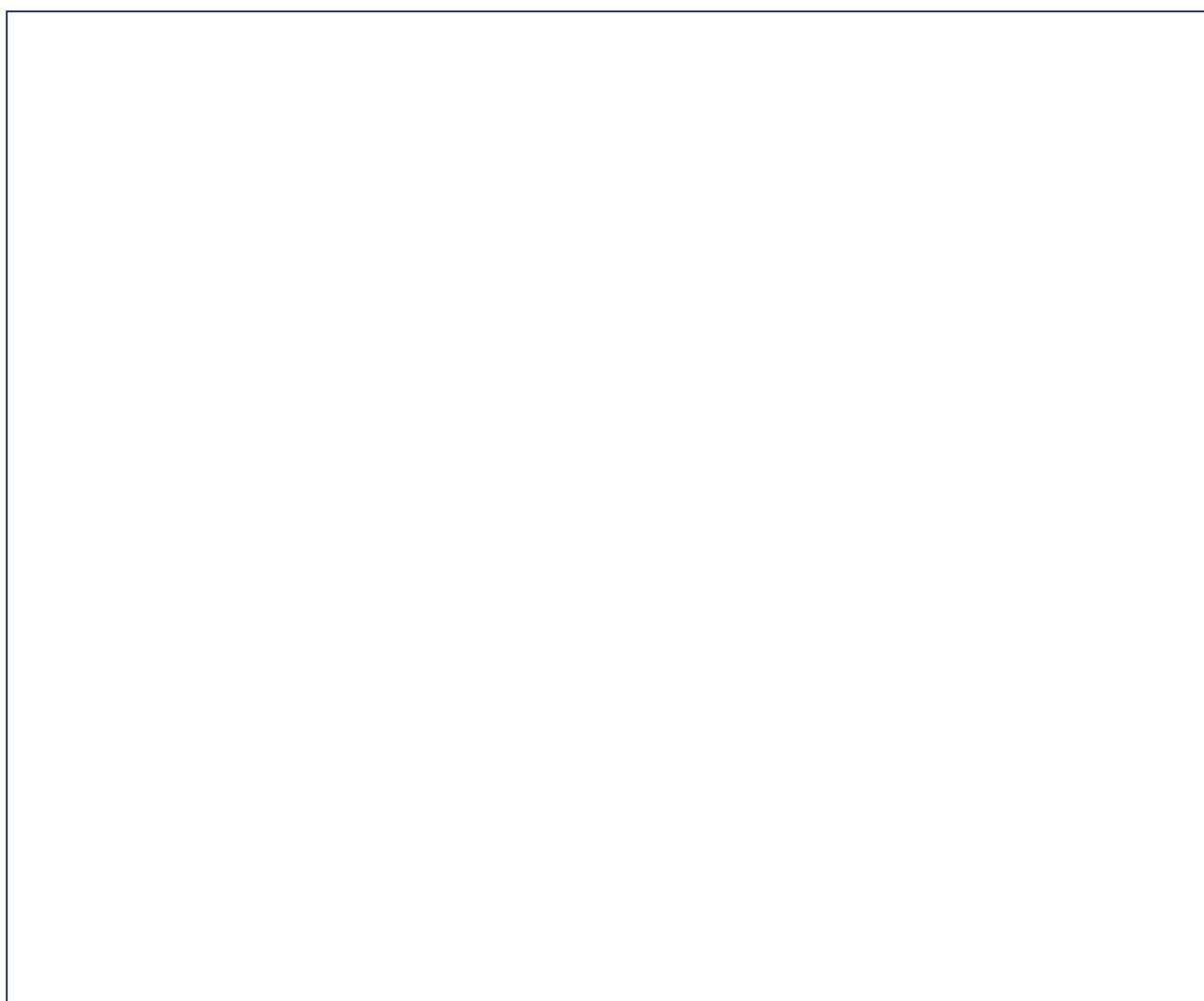


Symmetry in the Natural World with Zara the Zebra

Learning objective: To identify, draw, and reflect shapes with lines of symmetry, understanding the concept of a mirror line.

Follow the steps below to complete the symmetrical patterns. Use a ruler to ensure your lines are precise and your shapes are accurate.

Draw: Create a clean, uncluttered layout on an A4-sized workspace. Include a small illustration of Zara the Zebra in the corner holding a ruler. The main area should feature a light grid background to help with precision drawing. Include several vertical and horizontal dashed lines across the page to serve as 'mirror lines' for the students to complete their drawings. The style should be academic yet inviting, with plenty of white space for the student to draw their own geometric patterns.



Label words: Line of symmetry · Reflection · Vertex · Congruent · Axis · Mirror image

Steps:

1. Step 1: Draw a simple 2D shape (like a triangle or a regular hexagon) on one side of a vertical dotted line. Then, draw its reflection on the opposite side to complete the symmetrical pair.
2. Step 2: Draw a horizontal line of symmetry through the centre of a rectangle. Label the line of symmetry using the word bank.

3. Step 3: Sketch a butterfly wing on the left side of the page. Use your ruler to measure the distance from the centre line to your furthest point, then replicate that distance on the right side to finish the butterfly.
4. Step 4: Draw a shape that has more than one line of symmetry. Mark all the lines of symmetry you have created.
5. Step 5: Identify one object in the room that has rotational symmetry and write down how many times it would look the same during a full 360-degree turn.