Butterfly Wing Pattern Drawing: Repeat and Vary a Single Motif

Topic reference / ordinary illustration



Ordinary topic reference. Hypothetical dimensions in the four tasks are supplied in their own text; this illustration is not their measured answer.

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Worked example / complete source key

A learner draws a 4 by 3 grid. In the first cell, the motif has its inner edge on the left and fills two-thirds of the cell height. The rotation rule is 90 degrees clockwise moving right, and 180 degrees in the next row. The learner defines three variations: a notch, a vein, and a spot. Show how to assign rotations and variations so each rotation appears three times and each variation appears four times.

Answer: Row 1: cells 1 to 4 use rotations 0, 90, 180, 270 degrees. Row 2: cells 1 to 4 use rotations 180, 270, 0, 90 degrees. Row 3: cells 1 to 4 use rotations 0, 90, 180, 270 degrees. Assign the notch to cells 1, 5, 9; the vein to cells 2, 6, 10; the spot to cells 3, 7, 11; and repeat the notch in cell 4, the vein in cell 8, and the spot in cell 12. Count: each rotation appears three times (4 rotations × 3 = 12 cells); each variation appears four times (3 variations × 4 = 12 cells). The motif height stays two-thirds of the cell in every cell.