Aztec Dragon Drawing: Feather and Geometric Ornament Steps

Original tasks 1, 2 / independent work

Task 1

On a 15 cm spine, place two geometric bands: one behind the head and one near the tail. Using a hypothetical step height of 0.5 cm, describe how many step motifs fit in each band if the body width at each band is 3 cm and motifs are 1 cm wide with 0.5 cm spacing.

Task 2

A feather zone is 6 cm long along the neck. If each feather is 1.5 cm wide and rows are offset by half a feather width, describe how many feathers fit in a single row and how much offset occurs between two adjacent rows.

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Original tasks 3, 4 / independent work

Task 3

A student measures an x-height of 0.4 cm and sets feather length at 1.2 cm and step height at 0.8 cm. Check whether these values are consistent multiples of the x-height and suggest one adjustment if not.

Task 4

On a 24 cm spine, a student plans four bands at 6 cm intervals, placing them at 6, 12, 18, and 24 cm. The tail zone is the last 3 cm of the spine (from 21 to 24 cm). Check whether the spacing is even and whether the fourth band falls within the tail taper.