Draw Deer Antlers: Beam Taper, Tine Order, and Symmetry

Original tasks 1, 2 / independent work

Task 1

A right antler has a beam length of 9 cm. The base width is 1.0 cm and the tip width is 0.3 cm. Three branch points are marked at 3 cm, 5 cm, and 7 cm from the base. The tine lengths are 2.5 cm, 2.0 cm, and 1.5 cm. Check the taper and whether the last tine is shorter than the remaining beam above its branch point.

Task 2

A left antler has a base width of 1.4 cm and a tip width of 0.5 cm. A tine branches at a point where the beam width is 0.9 cm. The tine is drawn 1.1 cm wide at its base. Is the tine wider than the beam at the branch point, and what should change?

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Original tasks 3, 4 / independent work

Task 3

Two antlers are drawn with a vertical mirror guide. The left beam tip is 8 cm above the base line. The right beam tip is 9 cm above the base line. The left first tine tip is 3 cm from the guide, and the right first tine tip is 3.5 cm from the guide. Are the differences large enough to adjust before darkening the lines?

Task 4

An antler has four branch points at 2 cm, 4 cm, 6 cm, and 8 cm along a 10 cm beam. The tine lengths are 3 cm, 2 cm, 2.5 cm, and 1 cm. Which tine breaks the guidance that later tines should generally be shorter, and what is a simple fix?