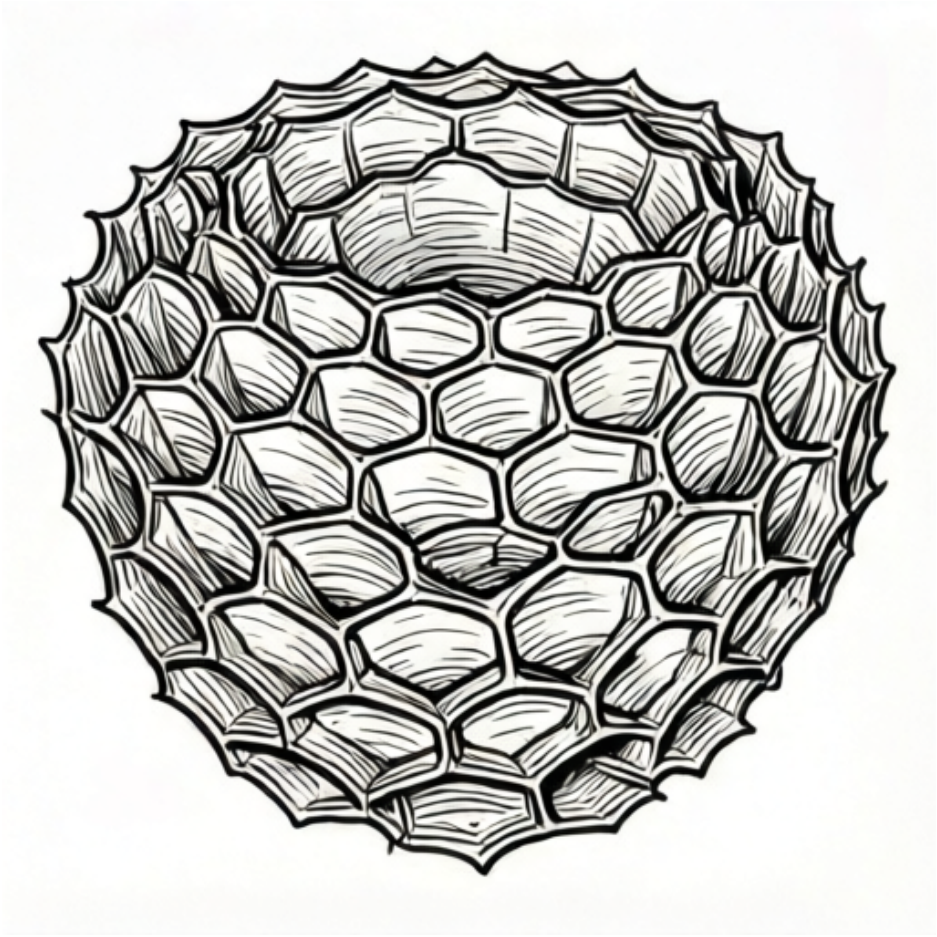
Draw a Paper Wasp Nest: Hexagonal Comb Layout

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.

Draw a Paper Wasp Nest: Hexagonal Comb Layout

Worked example / complete source key

A student plans a comb with s = 8 mm, 5 cells in a row, and 4 rows. Calculate the expected horizontal span between first and last centers in a row and the vertical span between first and last row centers. Then state one check for vertex consistency.

Answer: Horizontal span = (5 − 1) × 1.5 × 8 mm = 4 × 12 mm = 48 mm. Vertical span = (4 − 1) × 0.866 × 8 mm ≈ 3 × 6.93 mm ≈ 20.8 mm. Check: every interior vertex should have exactly three edges meeting.