Fabric Drawing: Tension Lines and Shading for Draped Cloth

Original tasks 1, 2, 3 / complete keys

Task 1

Draw two parallel pipe folds, each 2 cm wide and 6 cm long (hypothetical). Add tension lines and shade with values 1,3,5.

Answer: Two vertical rectangles side by side. Tension arrows down each center. Crests value 1, valleys value 5, mid value 3.

Reason: Pipe folds hang parallel; tension lines run vertically. Shading follows crest-light, valley-dark convention.

Check: Squint: each fold should show light edge and dark edge. Compare values to strip; ensure 1,3,5 are distinct.

Task 2

Draw a zigzag fold pattern 8 cm wide and 5 cm tall (hypothetical) with three diagonal ridges. Add tension lines and shade.

Answer: Three diagonal ridges alternating direction. Tension arrows along each ridge. Crests value 1, valleys value 5.

Reason: Zigzag folds come from sideways compression; tension lines follow ridge direction. Shading uses same value convention.

Check: Check that ridges alternate and tension lines match. Squint: valleys darker than crests.

Task 3

Draw a spiral fold wrapping a cylinder 4 cm diameter and 10 cm tall (hypothetical). Show tension lines curving around.

Answer: Helical tension line around cylinder. Shade crest value 1, valley value 5 along the spiral.

Reason: Spiral folds wrap around forms; tension lines curve. Shading follows the helix.

Check: Trace the spiral: tension line should be continuous. Squint: dark valley along inner curve, light crest outer.

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Original tasks 4 / complete keys

Task 4

Combine one pipe fold and one zigzag fold in a 10 cm by 12 cm study (hypothetical). Add tension lines and shade using the strip.

Answer: Pipe fold vertical on left, zigzag on right. Tension arrows for each. Values 1,3,5 applied consistently.

Reason: Combining fold types tests identification and shading consistency. Tension lines guide placement.

Check: Verify both fold types are present and tension lines align. Compare shading to strip; valleys darkest.

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Source rubric / reflection

- [ ] Three fold types are identifiable (pipe, zigzag, spiral).
- [ ] Tension lines are drawn before shading and align with fold direction.
- [ ] Five distinct values from the strip are used consistently.
- [ ] Valleys are darker than crests.
- [ ] Draped-cloth study includes at least two fold types.
- [ ] Measurements are labeled as hypothetical or measured from actual tools.

Reflection: What did you check, what did you change, and what will you try next?