Whimsical Flowers: Curled Stems and Stylized Petals

Original tasks 1, 2, 3 / complete keys

Task 1

Draw a spiral curled stem flower with a 10 cm stem and a four-petal bloom. Petal length 2.5 cm. Describe your construction lines and final shape.

Answer: A 10 cm S-curve stem with one full-turn spiral curl of decreasing radius, topped by a four-petal bloom of petal length 2.5 cm, each petal a closed shape with its narrow base at or near the bloom center and its tip pointing outward, with small gaps between adjacent petal bases and sides.

Reason: The stem length and petal length are stated, so proportions are checkable. The spiral convention requires one full turn and decreasing radius. Four petals are separate closed shapes.

Check: Measure stem length 10 cm, confirm spiral has one full turn, count four petals, measure each petal about 2.5 cm, and check petals do not overlap.

Task 2

Draw a bell-shaped stylized bloom hanging from a curled stem. Bell mouth width 4 cm, top width 2 cm, three scallops. Describe the neck line and scallops.

Answer: A curled stem ending in a small loop, a bell outline with 4 cm mouth and 2 cm top, three shallow scallop arcs along the bottom, and a short neck line connecting bell to loop.

Reason: The bell convention requires mouth width about twice top width, three scallops, and a neck line. The loop makes the bell appear to hang.

Check: Measure mouth 4 cm and top 2 cm, count three scallops, and confirm the neck line connects bell to stem loop.

Task 3

Draw a fan-petal burst with six petals radiating from a center. Petal length 3 cm, all within 0.5 cm of 3 cm. Add a curled stem below. Describe petal spacing.

Answer: A small center circle with six closed fan-shaped petals about 3 cm long, spaced evenly around the center, and a curled stem below the center.

Reason: Six petals are within the allowed six to eight. Petal lengths must be within 0.5 cm of each other. Even spacing supports the fan look.

Check: Measure each petal length and confirm all are between 2.5 cm and 3.5 cm, count six petals, and check spacing is roughly even.

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Original tasks 4 / complete keys

Task 4

Invent a fourth whimsical flower using the same principles: one curled stem, one stylized bloom, separate petals. State stem length, bloom width, and petal length, then describe your construction.

Answer: Example: a 14 cm stem with one spiral curl of decreasing radius, a star-shaped bloom of width 6 cm, and seven pointed petals of length 3 cm, each a separate closed shape with its narrow base at or near the bloom center and its tip pointing outward, with small gaps between adjacent petal bases and sides, and a short neck line connecting the bloom to the stem.

Reason: The invention must reuse the construction principles: a continuous curled stem with at least one full turn and decreasing radius, a closed bloom outline attached by a neck line, separate petals with small gaps, and consistent centimeter measurements so the result is checkable.

Check: Measure the stem at 14 cm and confirm it is continuous with one full-turn curl of decreasing radius; confirm the bloom outline is closed and joined by a neck line; count seven petals, measure each near 3 cm (within 0.5 cm), and check petals are separate with small gaps; confirm all measurements are in centimeters.

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Source rubric / reflection

- [ ] Stem is a continuous curved path from soil point to bloom center.
- [ ] Spiral curl has at least one full turn and decreasing radius.
- [ ] Bloom is a closed outline attached to the stem with a neck line.
- [ ] Radial/fan petals are separate closed shapes with narrow bases at or near the bloom center and tips pointing outward, with small gaps and no overlap; bell petals are three scallop arcs along the closed bell bottom edge.
- [ ] Petal lengths are consistent within 0.5 cm.
- [ ] Construction lines are light and final lines are darker.
- [ ] Overall shape reads as whimsical and non-realistic.

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