Taro Drawing: Tuber and Heart-Shaped Leaf Construction

Original tasks 1, 2, 3 / complete keys

Task 1

Draw only the tuber: an oval three units tall and two units wide, with three ridge lines and four root hairs.

Answer: A tapered oval at a 3:2 ratio, three lengthwise ridges, and four short tapered hairs along the sides or base.

Reason: The ratio keeps the oval from becoming a circle; three ridges and four hairs sit within the stated ranges.

Check: Measure height and width in units; count ridges and hairs; confirm hairs taper.

Task 2

Draw only the leaf: a heart two units wide and one and a half units tall, with a central vein and four side veins.

Answer: A heart outline wider than tall, a central vein from the top notch (stem attachment) to the bottom point, and four side veins branching outward.

Reason: The width-to-height ratio matches the heart shape; four side veins stay within a clear, readable pattern.

Check: Compare width and height; confirm the stem attaches at the top notch; trace the central vein; confirm no side vein crosses it.

Task 3

Combine a tuber two practice units tall and one practice unit wide with a leaf one practice unit wide and one practice unit tall. Place the leaf above and to the right, stem curving to the tuber top.

Answer: A small tapered tuber with a heart leaf above right, connected by a narrow curved stem from the leaf's top notch to the tuber top, with ridges and hairs visible. The tuber's widest width is one practice unit, so the leaf's one-unit width equals the tuber width.

Reason: Using the same practice unit for both parts keeps relative size clear; the stem curve links the parts without hiding ridges.

Check: Check the 2:1 tuber ratio, the 1:1 leaf ratio, stem connection, and that no ridge is crossed by the stem. Confirm the leaf width equals the tuber's widest width.

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Original tasks 4 / complete keys

Task 4

Draw a tuber four units tall and two units wide with five ridges and eight hairs, plus a leaf two units wide and one and a half units tall with six side veins. Then list two valid variations.

Answer: A tapered oval at 2:1 with five ridges and eight hairs, a wider-than-tall heart leaf with six side veins, and two variations such as four ridges or a slightly asymmetrical leaf.

Reason: All counts fall within the lesson ranges; variations are valid because the rubric allows ridge count, hair count, and symmetry to differ.

Check: Count ridges, hairs, and side veins; measure ratios; confirm each listed variation still meets the rubric checks.

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Source rubric / reflection

- [ ] Tuber is an oval with tapered ends, not a circle.
- [ ] Three to five lengthwise ridge lines are present and unevenly spaced.
- [ ] Root hairs are short, curved, and tapered.
- [ ] Leaf outline is heart-shaped with a top notch where the stem attaches and a bottom point.
- [ ] Central vein runs from the top notch (stem attachment) to the bottom point.
- [ ] Side veins branch outward without crossing the central vein.
- [ ] Stem is narrow, curved, and connects clearly to the leaf.
- [ ] Tuber and leaf are combined with clear relative size and no confusing overlap.
- [ ] Valid alternatives are accepted: ridge count, hair count, leaf symmetry, and lettering style may vary if the checks above hold.

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