Draw an Upside-Down Mushroom: Cap, Gills, and Stem Orientation

Original tasks 1, 2 / complete keys

Task 1

Draw an inverted mushroom with a cap 6 cm wide and a stem 4 cm tall. Add 8 gill lines and label all three parts.

Answer: A 6 cm rim curve with a dome below, a 4 cm stem rising from the midpoint, 8 radial gill lines from stem base to rim, and three outside labels.

Reason: The cap width and stem height are measured with a ruler. The stem starts at the rim midpoint so it stays centered. Gill lines start near the stem base and end at the rim, showing radial direction without crossing the stem.

Check: Measure cap width and stem height. Confirm the dome is below the rim, the stem is above the center, gills do not cross the stem, and labels point to the correct parts.

Task 2

Draw an inverted mushroom with a shallow dome and a stem one-half the cap width. Use 12 gill lines. Label cap, gills, and stem.

Answer: A wide rim with a shallow dome below, a stem half as wide as the cap rising from the center, 12 evenly spaced gill lines, and three labels outside the contour.

Reason: A shallow dome is a valid alternative. The stem width is chosen as half the cap width, a hypothetical proportion. Centering the stem on the rim midpoint keeps the attachment correct. Twelve gills still radiate from the stem base.

Check: Check that the dome is below the rim, the stem is centered, gill lines stop at the rim, and labels are readable and outside the drawing.

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Original tasks 3, 4 / complete keys

Task 3

Draw an inverted mushroom and add a dashed line showing the cap center. Explain in one sentence why the stem must start there.

Answer: The drawing shows the dome below the rim, the stem rising from a marked center point, radial gills, and a dashed center line. The sentence states that the stem attaches at the cap center so the mushroom looks balanced and the gills radiate correctly.

Reason: The center mark makes the attachment point visible. Starting the stem there keeps the stem aligned with the gill origin. The dashed line is a check aid, not a required feature.

Check: Confirm the dashed line passes through the stem base and the rim midpoint. Check that gills radiate from the same area and labels are correct.

Task 4

Draw two inverted mushrooms side by side: one with a deep dome and one with a shallow dome. Use the same cap width and stem height for both. Label cap, gills, and stem on each.

Answer: Two drawings share the same rim width and stem height. One dome curves deeply below the rim; the other curves shallowly. Both stems rise from the center, both have radial gills, and both are labeled.

Reason: Keeping cap width and stem height equal isolates the dome shape as the variable. Both versions are valid if orientation and attachments are correct. Labels on each drawing make the comparison clear.

Check: Measure both cap widths and stem heights to confirm they match. Check that each dome is below its rim, each stem is centered, gills do not cross stems, and all labels are readable.

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Source rubric / reflection

- [ ] Orientation: dome below the rim and stem pointing upward.
- [ ] Attachment: stem centered on the cap and gills radiating from the stem base.
- [ ] Contour: cap and stem outlines are closed and clear.
- [ ] Gills: lines stop at the rim and do not cross the stem.
- [ ] Labels: cap, gills, and stem labeled with readable leader lines.
- [ ] Valid alternatives: shallower dome or wider stem accepted if orientation and attachments are correct.

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