# Upside-Down House Drawing: Orientation Practice with Roof, Door, and Gravity Cues

Original tasks 1, 2 / complete keys

Task 1

Describe how to draw an inverted house with a triangular roof, a door, and a ball as the gravity cue. State where each element points.

Answer: Draw the house base line near the top. Draw a triangle below it with the peak pointing toward the bottom edge. Attach a door rectangle to the top edge, hanging downward. Draw a ball above the roof peak, falling toward the top edge.

Reason: The convention rotates the scene 180 degrees, so the roof peak and gravity cue point toward the bottom and top edges respectively, and the door hangs from the top edge.

Check: Ask three questions: peak down? door at top? ball toward top? Three yes answers mean the description is correct.

Task 2

A drawing shows a roof peak pointing up, a door attached to the bottom of the house base, and a plant drooping downward. Identify the orientation errors and state one fix for each.

Answer: Errors: roof peak points up instead of down; door is attached at the bottom instead of the top edge; plant droops downward instead of upward. Fixes: redraw the roof with the peak toward the bottom edge; move the door so its top side touches the top edge; redraw the plant so it hangs upward toward the top edge.

Reason: Each element must follow the 180-degree rotation convention. The roof peak, door attachment, and gravity cue all have defined directions.

Check: Compare each element to the three orientation questions and confirm the fixes change the direction to match.

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Original tasks 3, 4 / complete keys

Task 3

You have a tracing box 8 cm wide and 5 cm tall with a dashed triangle peak 1 cm above the bottom edge. After tracing, the peak is 2 cm above the bottom edge. Is the traced roof correct? Explain using the given measurements.

Answer: No. The traced peak should be 1 cm above the bottom edge, but it is 2 cm above, so the roof is too tall by 1 cm. Adjust the peak downward by 1 cm to match the guide.

Reason: The dashed guide defines the peak position. Comparing measured heights in the same unit (cm) shows a 1 cm difference.

Check: Measure the peak height again after adjustment and confirm it is 1 cm above the bottom edge.

Task 4

In a blank frame 12 cm by 9 cm, draw an upside-down house with a trapezoid roof, a door with a knob on the left, and a plant hanging upward. Then run the orientation check and state your three answers.

Answer: The drawing should have the trapezoid roof sloping downward, the door attached to the top edge with the knob on the left, and the plant hanging toward the top edge. Orientation check answers: roof slope down? yes; door at top? yes; plant toward top? yes.

Reason: A trapezoid roof is a valid alternative if its slope points downward. Knob position is a valid alternative and does not affect orientation. The plant must point toward the top edge.

Check: Use the three orientation questions and confirm all three answers are yes; measure the frame only if you need to confirm dimensions, using cm consistently.

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Source rubric / reflection

- [ ] Roof peak or slope points toward the bottom edge (yes/no).
- [ ] Door is attached to the top edge and hangs downward (yes/no).
- [ ] Gravity cue points toward the top edge (yes/no).
- [ ] Drawing is flat with no shading or perspective (yes/no).
- [ ] Valid alternatives in letter style, knob position, or roof shape are accepted without penalty.

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