Spring Scale Drawing: Hook, Dial, Body, and Markings

Original tasks 1, 2, 3 / complete keys

Task 1

Draw a spring scale with a hook at the bottom, a body, and a dial near the top. Add four evenly spaced tick marks around the dial. Do not label the parts.

Answer: A drawing with a vertical center line, a dial circle near the top, a rounded rectangular body, a smooth hook attached at the bottom center, and four evenly spaced tick marks around the dial.

Reason: The task checks basic layout and even spacing. Four ticks are enough to show the scale marking convention without clutter.

Check: Verify that the hook touches the body, the dial is near the top, and the four tick marks are evenly spaced.

Task 2

Draw a spring scale and add a body scale with five horizontal tick marks along one side of the body. Label the hook and the dial face with short label lines.

Answer: A drawing with a hook, body, and dial, plus five horizontal tick marks evenly spaced along one side of the body. Short label lines point to the hook and the dial face.

Reason: This exercise practices body markings and labeling. Five marks are a simple count that is easy to check.

Check: Check that the five body ticks are evenly spaced and that the label lines clearly point to the hook and dial face.

Task 3

Draw a spring scale with a dial that has an inner circle, a pointer line, and six tick marks. Add a small connector between the hook and the body.

Answer: A drawing with a dial containing an inner circle, a pointer line from the center, six evenly spaced tick marks, and a visible connector piece between the hook and the body.

Reason: The exercise focuses on dial detail and hook attachment, two common weak points in spring scale drawings.

Check: Verify the inner circle and pointer are present, the six ticks are evenly spaced, and the connector touches both hook and body.

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Original tasks 4 / complete keys

Task 4

Draw a spring scale and label all four parts: hook, dial face, body, and scale markings. Use a light center line and a darker final outline.

Answer: A complete drawing with a light center line, a darker final outline, and clear labels for hook, dial face, body, and scale markings. All parts align on the center line.

Reason: This exercise checks the full construction sequence and the labeling convention.

Check: Check that all four labels are present and legible, the center line is light, the final outline is darker, and the parts align.

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Source rubric / reflection

- [ ] Hook is present, smooth, and clearly attached to the bottom of the body.
- [ ] Dial face is present, face-on, and positioned near the top of the body.
- [ ] Body is drawn as a vertical cylinder with straight sides and slight curves at top and bottom.
- [ ] Scale markings are present and evenly spaced.
- [ ] Labels or label lines clearly identify hook, dial face, body, and scale markings.
- [ ] Final outline is clear and guide lines are removed or light.
- [ ] Alternative letter styles and handwriting are acceptable if legible.

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