Draw a Running Chicken: Leg-Position Motion Study

Original tasks 1, 2, 3, 4 / complete keys

Task 1

In a four-frame strip, frame one has the near foot 2 units forward and the far foot 2 units back. What is the stride span?

Answer: 4 units.

Reason: Forward offset plus back offset: 2 + 2 = 4 units.

Check: Measure both offsets from body center and add them.

Task 2

Frame two shows the near foot under the body and the far foot 3 units forward. Which foot should be forward in frame three if the sequence alternates?

Answer: The far foot should be forward in frame three, with the near foot back.

Reason: Frame three reverses frame one, so the far leg takes the forward position.

Check: Confirm near and far legs swap forward/back roles between frames one and three.

Task 3

A student draws frame four with both feet 2 units forward. What is the main error and how to fix it?

Answer: Both feet are in the same forward position; fix by placing the near foot forward and the far foot under the body.

Reason: Running requires alternating leg positions, not both feet forward.

Check: Check that each frame has one forward or passing leg and one back or passing leg.

Task 4

If the body midline is 4 units above the baseline and the head is 2 units above the midline, what is the total height from baseline to head top in this hypothetical example?

Answer: 6 units.

Reason: Add midline height and head height: 4 + 2 = 6 units.

Check: Measure baseline to midline, then midline to head top, and add.

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Source rubric / reflection

- [ ] Body anchor is consistent in size and position across all frames.
- [ ] Leg length is measured baseline to midline and kept constant.
- [ ] Near and far legs alternate correctly across four frames.
- [ ] Stride span is equal in frames one and three.
- [ ] Motion arrows curve forward and connect consecutive foot positions.
- [ ] Valid alternative feather or letter styles are accepted if stride logic holds.

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