Bird Wing Drawing Easy: Folded and Open Pose Construction

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

Task 1

A folded wing has shoulder at 1 cm, elbow at 4 cm, and wrist at 8 cm from the body edge. State the two arm segment lengths.

Answer: Shoulder-to-elbow is 3 cm; elbow-to-wrist is 4 cm.

Reason: Subtract consecutive joint positions: 4 minus 1 equals 3; 8 minus 4 equals 4.

Check: Re-add the segments: 3 plus 4 equals 7 cm from shoulder to wrist, matching 8 minus 1.

Task 2

An open pose uses the same 3 cm and 4 cm segments. If the shoulder is at 2 cm and the elbow is 5 cm from the left edge, where is the wrist?

Answer: The wrist is at 9 cm from the left edge.

Reason: Elbow at 5 cm plus the 4 cm forearm equals 9 cm.

Check: Measure shoulder-to-wrist as 9 minus 2 equals 7 cm, equal to 3 plus 4.

Task 3

A student draws primaries starting at the elbow and ending at the tip. Which zone is misplaced, and where should primaries attach?

Answer: Primaries are misplaced; they should attach from wrist to tip, while secondaries attach along the forearm.

Reason: The hand segment runs from wrist to tip, so long primaries belong there.

Check: Trace the arm: elbow-to-wrist holds secondaries; wrist-to-tip holds primaries.

Task 4

In a folded pose, the primaries lie parallel to the body and cover most secondaries. Name one visible zone and one mostly hidden zone.

Answer: Coverts remain visible near the arm; secondaries are mostly hidden by the folded primaries.

Reason: Folded primaries stack over the forearm, obscuring secondaries, while coverts stay near the shoulder area.

Check: Compare the folded sketch to the open sketch: the same zones appear, but overlap changes visibility.

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Source rubric / reflection

- [ ] Three joints (shoulder, elbow, wrist) are placed and labeled in both poses.
- [ ] Segment lengths match between folded and open poses within the chosen tolerance.
- [ ] Coverts, secondaries, and primaries occupy the correct zones.
- [ ] Feather length increases from coverts to secondaries to primaries.
- [ ] Labels use a clear x-height and do not cover landmarks.
- [ ] Valid alternative letter styles and feather simplifications are accepted if zones and joints remain readable.

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