Draw a Running Stick Figure: Joint Angles and Four-Frame Stride

Original tasks 1, 2 / independent work

Task 1

In a four-frame strip, Frame 2 has a front hip angle of 120 degrees and a back hip angle of 150 degrees. Frame 3 has a front hip angle of 90 degrees and a back hip angle of 170 degrees. State whether the hip angles change in a plausible direction from Frame 2 to Frame 3 and give one reason.

Task 2

A learner labels a knee angle as 10 degrees in Frame 3. Explain why this is likely a mistake in a running stick figure and suggest a corrected label range.

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Original tasks 3, 4 / independent work

Task 3

Frame 1 has shoulder angles of 30 degrees forward and 40 degrees back. Frame 4 has shoulder angles of 40 degrees forward and 30 degrees back. Explain what this change shows about the arms and state one check.

Task 4

You draw a four-frame sequence but Frame 3 has both feet on the ground and Frame 4 has both feet off the ground. State whether this matches the contact-drive-flight-recovery order and give one correction.