Nova’s Science Sketchbook: Skeletons and Muscles

Learning objective: To identify that humans and some other animals have skeletons and muscles for support, protection, and movement.

Follow the drawing prompt below to complete your scientific diagram. Use the word bank to label your sketch accurately.

Draw: Draw a clear, scientific diagram of a human body in a dynamic pose (like running or jumping). Use a clean, pencil-sketch style. The drawing should focus on showing the internal structure: draw the skull protecting the head, the ribcage protecting the chest, the spine running down the back, and the arm muscles. Ensure the lines are bold enough to add labels from the word bank clearly.

Label words: Skull · Ribcage · Spine · Bicep · Femur · Joint

Steps:

1. Step 1: Draw a simple outline of a human body in a jumping position. Add the skull and the ribcage inside the body shape.
2. Step 2: Draw a long bone in the leg. Label this the 'Femur'.
3. Step 3: Draw a muscle on the upper arm. Label this the 'Bicep'.
4. Step 4: Circle the place where two bones meet at the elbow. Label this a 'Joint'.

5. Why do we need a skeleton? Write one reason below.