Nova’s Skeleton and Muscle Investigation

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

Nova the owl wants to understand how our bodies move! Read the descriptions below and match them to the correct part of the body. Then, use the word bank to fill in the missing terms in the sentences provided.

Word bank: skeleton · muscles · support · joints · protection · contract

1. 1. I am a hard framework that gives your body shape and provides _____ for your organs. What am I? (1 mark)

2. 2. I am where two bones meet, allowing your body to bend and move. What am I? (1 mark)

3. 3. To move your arm, your _____ must tighten and _____ to pull on the bone. (2 marks)

4. 4. Why is your skull important for your brain? Give one reason. (2 marks)

5. 5. True or False: You can move your body without muscles. Explain your answer using what you know about how bones move. (3 marks)

Draw: Draw a diagram of a human arm. Label the 'bone' and show where a 'muscle' would be attached to help the arm bend at the elbow.

Extension challenge: Research one animal that does not have an internal skeleton (an invertebrate). Write a sentence explaining how it moves or keeps its shape compared to a human.