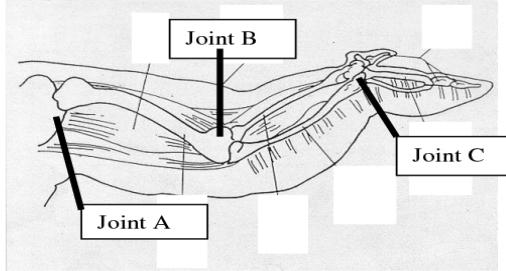


## Chicken Wing Dissection –Skeletal and Muscular Systems

**ENTIRE LAB REPORT DUE DEC. 18<sup>th</sup>. Equivalent to a Quiz Grade.**

**Purpose:** To appreciate how the muscular and skeletal systems work together to move and support a chicken's wing.



**Sketch:** Make a sketch similar to the one above and label as many structures as you can (**humerus, ulna, radius, scapula, carpals, metacarpals, phalanges**). Name the bones as if they were bones of the human arm.

**Lab report:** You will submit a lab report on lined notebook paper by the due date. The lab report will contain the sketch above, labeled as instructed, a completed version of the “Chicken Wing Dissection Table” on p. 3 of this packet, and answers to Discussion Questions A-H and Analysis Questions #1-7.

### Procedure:

1. Put on gloves. All students should wear gloves.
2. Obtain a chicken wing, dissecting tray and dissecting equipment.
3. Rinse the chicken wing under cool, running water and thoroughly dry it with a paper towel.
4. Pick up the wing and imagine it is still on the chicken. Notice that the “thumb” is superior.
5. **Discussion Question A (answer in your lab report): Do you think your wing is from the right or left side of the chicken? Explain. You will have an observation and an inference that answers this question.**
6. Imagine that the wing is your arm. Move the joints and look at Figure 1 to answer these questions.  
**Question B:** Which joint in the human body (shoulder, elbow, wrist or finger) is the equivalent to joint A? Why do you think so?  
**Question C:** Does joint A move more like a ball and socket joint or more like a hinge joint? Explain your answer.  
**Question D:** Which joint in the human body (shoulder, elbow, wrist or finger) is the equivalent to Joint B? Why do you think so?  
**Question E:** Which joint in the human body (shoulder, elbow, wrist or finger) is the equivalent to Joint C? Why do you think so?
7. Examine the skin covering the chicken wing.  
**Fill in #1 on the Table.**
8. Carefully cut the skin along the entire length of the chicken wing as shown in figure #1. Try not to cut through the muscles below the skin.