**Background:**

 **Prelab: Let’s Play With Our Food!** 

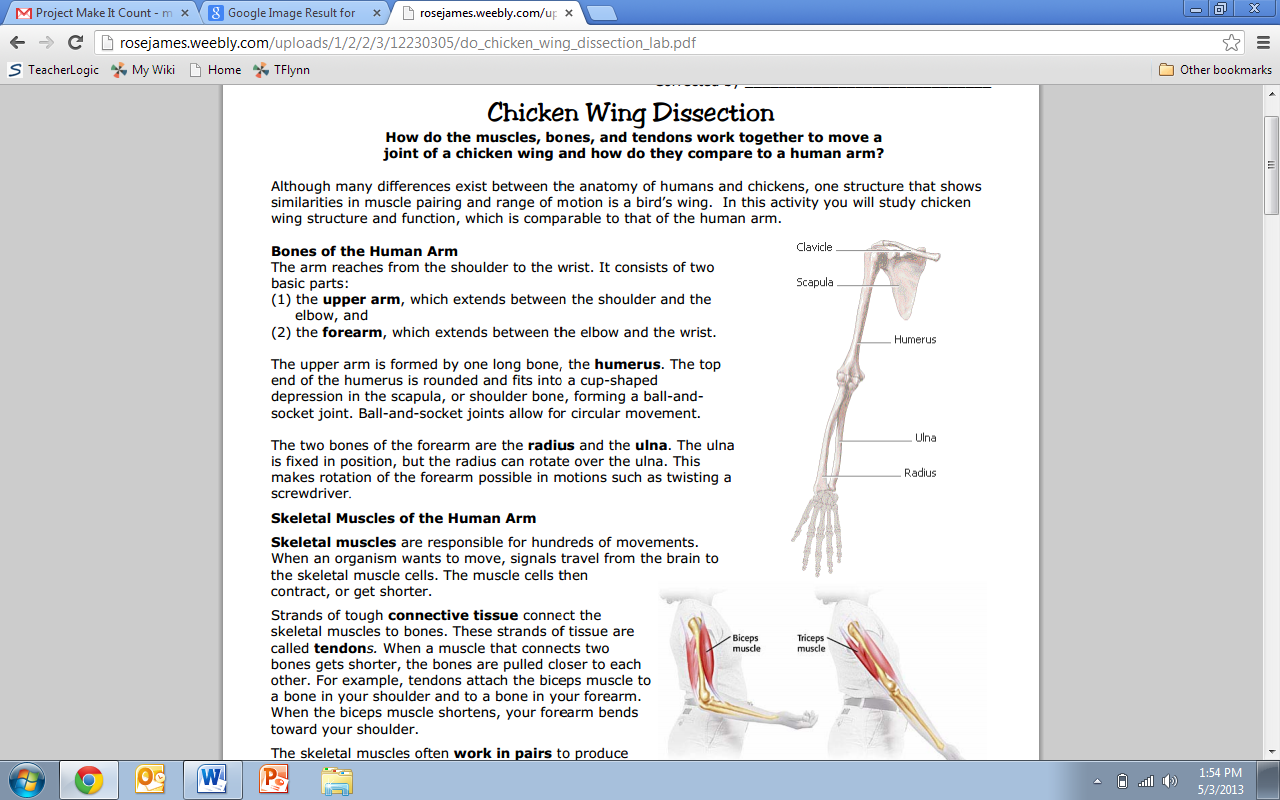
So far this year we have learned about the aspects of biology and culminated with evolution. Tomorrow we are going to explore anatomical evidence for evolution with a dissection of an organism to look the homologous structures. Remember a **homologous structure** is a structure that is similar in many species of organisms and is passed down from a common ancestor.

Tomorrow we are going to look at the structural similarities of the human arm and

**Human Arm:**

The bones in the human arm are used for structure and support. They extend from the shoulder to the wrist

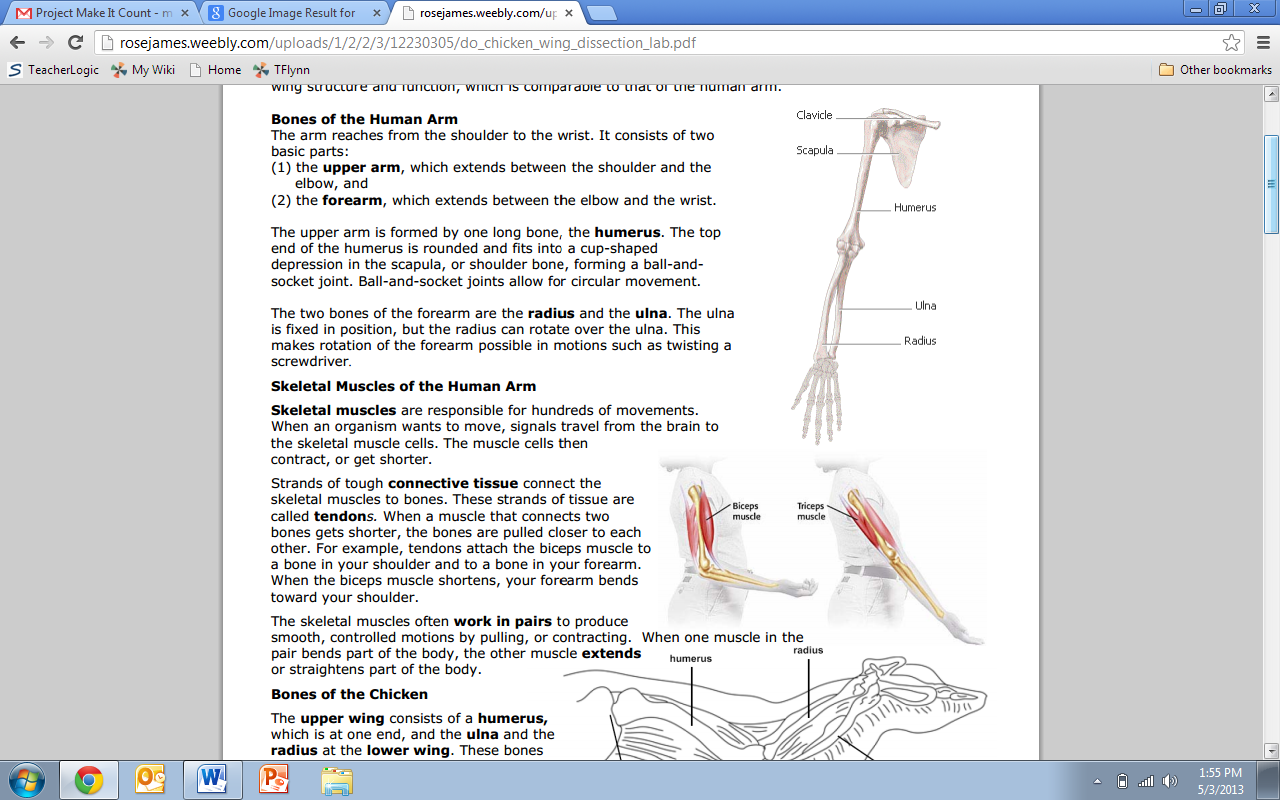
1. The **upper arm** is composed of three bones, the clavicle, the scapula and the humerus
2. The **forearm** is composed of two bones, the radius and the ulna



The muscles in the human arm are used to move the arm. They extend from the shoulder to the wrist. They are interconnected with tough chunks of connective tissue called **tendons**. The tendons connect the muscle groups to bones.

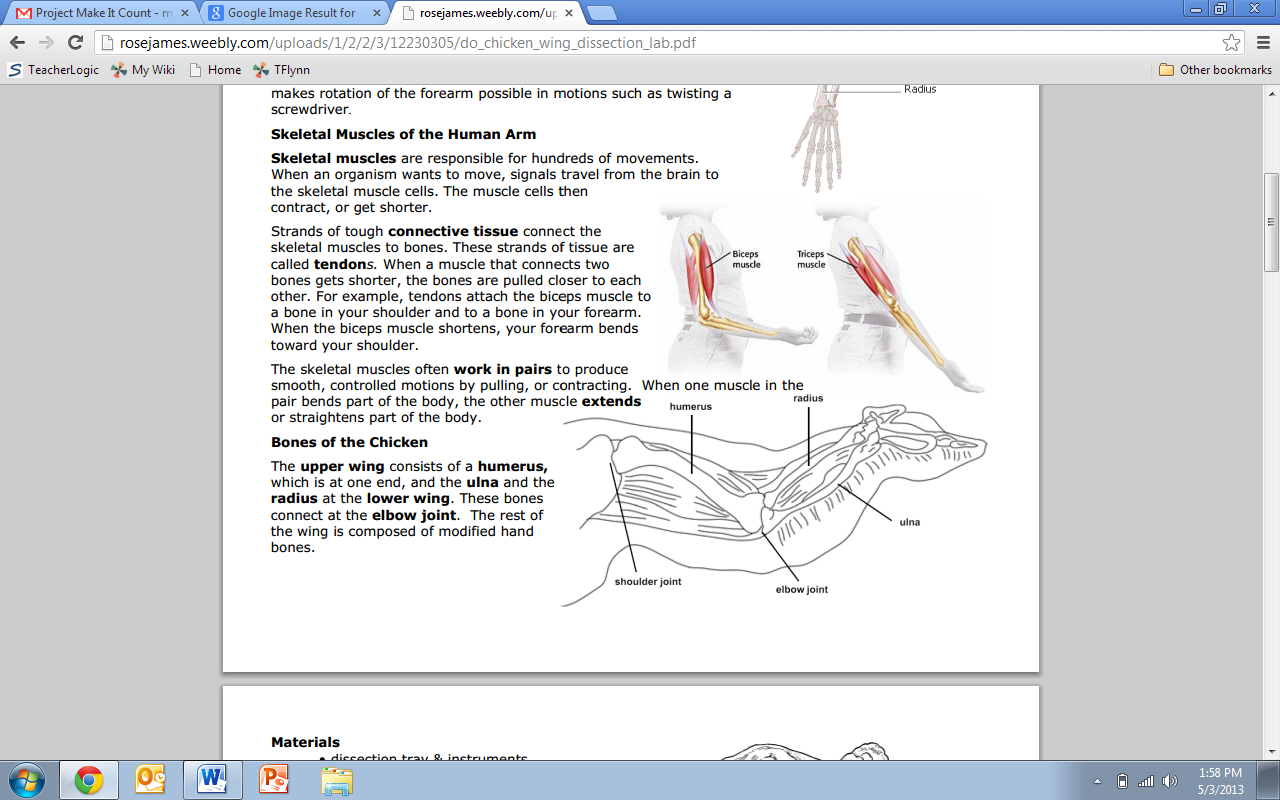
Because there are many muscles in making the arm move, we will focus on the two major groups in the upper arm.

1. The **biceps** are on top of the humerus and contract the forearm
2. The **triceps** are behind the humerus and extend the forearm

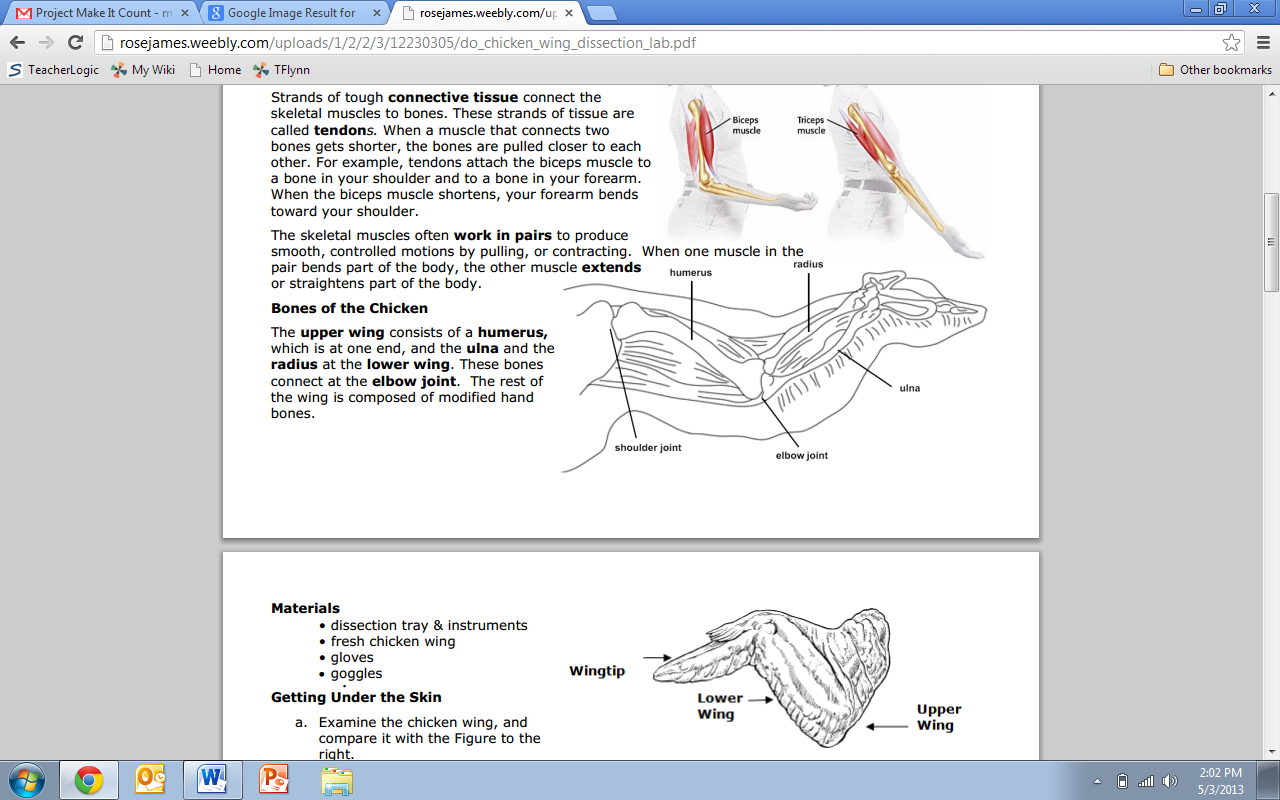


**Chicken Wing:**

The chicken wing consists of the upper wing and the lower wing. The **upper wing** consists of the humerus and the **lower wing** consists of the radius and ulna. These bones are connected at the elbow joint. Other bones that will be present are connected at the wrist and are modified hand bones.



The muscles of the chicken wing also have tendons. The biceps of the chicken wing contract the **upper wing**, while the triceps extend the upper wing.



**Pre-lab Questions:**

1. What is similar between the bones of the chicken wing and the bones of the human arm?
2. What is similar between the muscles of the chicken wing and the muscles of the human arm?
3. The chicken wing and the human arm would be considered \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ structures.