 **Lab: Let’s Play With Our Food** 

**Background:**

After learning about the different bones in a chicken and a human, it is now time to see it with our own eyes. Let’s get started!

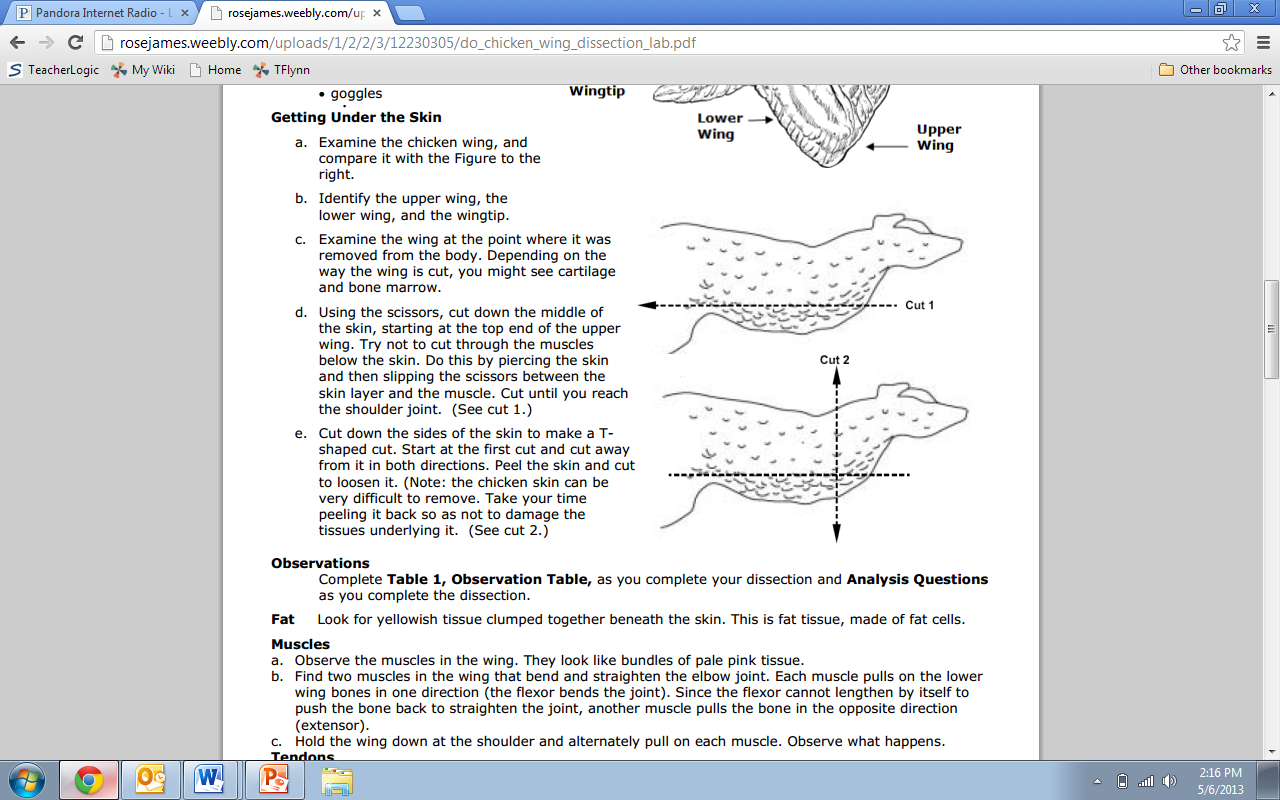
REMINDER: This is a piece of uncooked chicken that could be carrying various bacteria. Wear gloves at all times and wash your hands with soap at the end of the dissection.

**Materials:**

* One Chicken Wing
* Dissection kit
* Dissection tray
* Gloves
* Goggles

Procedure:

1. Observe the chicken wing. The fatty outer layer is the skin of the chicken. We have to cut through the skin of the chicken to see the muscles and bones.
2. Take your scissors or scalpel and make two cuts in the wing (see the diagram below). The cuts should resemble a “t”. BE CAREFUL- do not cut the muscle or bone.



1. Use your hands and the dissection tools to completely and carefully remove the skin from the wing. This may be difficult. Be patient and be careful not to damage any of the underlying tissues.
2. Take this opportunity to fill in the observation table. Fill in the section labeled skin.
3. Take a look at your wing. You will notice several of the exposed tissues. The yellow/white globular sections are fat, the pinkish tissues are muscle, the long, stringy and white tissues are ligaments and the solid, hard white tissues are bone. Fill in your observation table below.
4. Locate and look at the muscles on the humorous. Find the two bones that are responsible for bringing the lower arm towards the body. Those are the biceps. Now locate the muscles that are used to bring the lower arm away from the body. Those are the triceps.
5. Now locate a tendon. A tendon will be the tough and stringy white section that connects the pink muscle to the bone. Pull on a tendon to see what tendons do.
6. Once you have completely filled out your observation chart and finished your lab, throw out your chicken. **It should only be disposed at the trash can in the front of the classroom.**
7. First wash your instruments and trays with hot soapy water. Then wash down anything that may have come in contact with the chicken. book bags, pencils, etc. Once all objects are cleaned, clean off your desk with soapy water and finally wash your hands with soapy water. Only then may you put away your safety goggles.

**Data:**

Observation Table

|  |  |  |
| --- | --- | --- |
| **Tissue** | **Observations** | **Similarities to Humans** |
| Skin |  |  |
| Fat |  |  |
| Bone |  |  |
| Tendon |  |  |
| Muscle |  |  |

**Analysis:**

1. What is the purpose of each of the tissues that we observed today?
2. Are there parallels between your arm and a chicken wing? Describe at least two of them.
3. Why are the human arm and the chicken wing so similar? What does this suggest? What term do we use to describe this situation?