

Chicken Wing Dissection

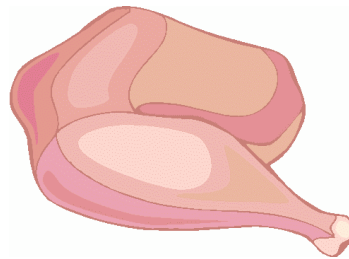
In this activity you will find out if your arm and a chicken's wing are homologous structures. You will also determine the similarities and differences between the human arm and the chicken wing.

First state a hypothesis. Do you think the chicken wing and the human arm are homologous structures?

I hypothesize...

Materials:

1 cooked chicken wing
dissection kit including forceps, scalpel, and probe
dissection pan
paper towels
diagram of human arm
gloves
pencil



Procedures:

1. Place a chicken wing in the dissection pan.
2. Use your dissection tools to remove all the meat from the wing.
3. **Be careful! Do not break your chicken bones! Do not cut yourself!**
4. Clean up your area. Put your chicken bones on a paper towel. Put your chicken meat in the trash and clean your dissection pan and tools. Wash your hands!
5. Examine the bones of the chicken wing. Draw the bones on your diagram sheet.
6. Compare the bones of the human arm and the chicken wings. Label the bones on your diagrams.

Analyze and Conclude:

1. How are the bones of the human arm similar to the bones in the chicken wing? Consider size, shape, and number.

2. How are the bones of the human arm different to the bones in the chicken wing? Consider size, shape, and number.

3. Do your observations support your original hypothesis?

4. Based on the information gained from this activity, could you classify your arm and a chicken wing as homologous structures? Explain your answer.

5. What could you do to prove that both structures are homologous?