FIRM, BUT FLEXIBLE: CHICKEN BONE LAB

Job Sheet

**Objectives:** At the end of this lab, you will be able to:

* Determine structure and function of skeleton and bones
* Analyze the gross anatomy of bone and bone tissue

**Materials Needed:**

* Chicken leg bones
* 2 glass jars
* Vinegar
* Bleach
* Scale
* Ruler

**Procedure:**

1. Take two chicken bones
2. Remove all fat and remaining meat
3. Weigh and measure each bone, recording your findings on the table
4. Label one jar VINEGAR and one jar BLEACH
5. Put one bone in each jar
6. Pour enough liquid in each respective jar to cover the bones

**Pre-questions:**

1. What is your hypothesis for the weight and length change of the bones you placed in the VINEGAR?
2. What is your hypothesis for the weight and length change of the bone that you placed in the BLEACH?
3. What components of bone will be left in the bone placed in VINEGAR?
4. What components of bone should be left in the bone placed in BLEACH?

Record Keeping

Each class period, record the weight and length of your chicken bone.

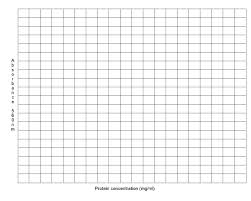
|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Bone in the VINEGAR | | | Bone in the BLEACH | | |
| Date | Weight | Length | Appearance | Weight | Length | Appearance |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

**Findings:**

Please determine the following based on your results

|  |  |  |
| --- | --- | --- |
| Factor | Bone in the VINEGAR | Bone in the BLEACH |
| Weight change from beginning to end |  |  |
| Length change from beginning to end |  |  |
| Appearance change from beginning to end |  |  |

**Chart:**



Create a graph to show your results

**Review Questions:**

1. How did the results compare to the hypothesis for both experiments?
2. Are all the component of the bone necessary? Explain your answer.