

# Bone In Vinegar Lab

## Bone In Vinegar Lab

**Objective:** Observe & record how various changes after soaking in vinegar. Research the composition of bones and explain why these changes occur.

**Materials:** Chicken Bone, Chicken Bone, vinegar, "Tooth" Tube, Test Tube Rack, Beaker, Paper Towel, Tweezers, Scissors, Metric Ruler, Paper Towel, Paper Plate

### Pre-Lab Questions

1. What do you think bones are made of?

### Procedure

1. Pick your group and collect your materials.
2. Weigh your hypothesis.
3. Record all observations for Day 0 only. (Observations include weight, length, and physical descriptions like how hard, color, texture, etc.)
4. Place all observations on computer. Continue to weigh and add weight change on that day based on consecutive observations. Record all data changes with magnitude. (Don't just write when you get something, label and take it down.)
5. Check on your bone at the beginning of class every other day and record your observations for 4 weeks.
6. After 4 weeks, write a conclusion that includes if your hypothesis was supported or not, with a scientific explanation for the changes that occurred in the bone throughout the lab.

### Discussion

Write a hypothesis in one of these boxes. Remember that scientific data are those that respond to your bone after 4 full weeks in vinegar for 4 weeks.

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Bone Table

Day	Weight (g)	Length (cm)	Physical Description
0			
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

### Conclusion

1. Write a 4-6 sentence conclusion about why the changes in your bone occurred. (Use & explain the following 3 terms: hydroxyapatite, collagen, hydrochloric acid) each of the words include your definition in the "Key Terms" section. Use these pages if needed.

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### Key Terms

- Hydroxyapatite
- Collagen
- Hydrochloric



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**PT Brinkman**



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