

What Makes Our Bones Strong? **Worksheet**

Materials

- chicken bone
- rubber band
- beaker
- wax pencil
- plastic wrap
- vinegar

Procedure

1. Use a wax pencil to label the beaker with your group members' names.
2. Label the experiment start date and time on the beaker.
3. Observe the chicken bone (length, width, shape, mass, color, rigidity, etc.). Write down and date your observations.
4. Make a chart with the written observations about what your group thinks makes bones strong.
5. Place the chicken bone in the beaker.
6. Cover the bone with vinegar.
7. Cover the beaker with plastic and secure it with a rubber band.
8. Let the bones sit four days in the liquid solution.
9. During this time, write all observations on a chart.
10. As a conclusion, compare and contrast your observations of the bone condition from before and after the experiment.

Prepare a lab report and class presentation. Make sure to do the following:

- Write the experiment purpose.
- Write a hypothesis.
- Make a prediction.
- Run the experiment.
- Create a chart and record your data and observations.
- Analyze and state your results.
- Draw conclusions.
- Write additional questions that you would like to explore.