



Name _____

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What fruits contain enzymes that act on protein? By Beth Mick

Enzymes are proteins that speed up reactions in living organisms. Enzymes may help build macromolecules or they may break them down. Certain fruits have an enzyme called bromelin. bromelin breaks down another protein called gelatin. You are going to see the effects of bromelin on gelatin.

Purpose: Investigating the effect of the enzyme Bromelin on gelatin and determine which fruits may have bromelin present.

Materials: 4 paper cups knife canned pineapple
 Banana slices jello fresh pineapple

Procedure:

1. What do you need to do first?
2. Write a hypothesis.
3. Number the cups of jello 1 through 4.
4. Select three chunks of canned pineapple, get three chunks of fresh pineapple that are the same size as the canned pineapple, and get three pieces of bananas.
5. Add the following to each cup. Make sure that the fruits are submerged.
Cup 1 – NOTHING
Cup 2 – canned pineapple chunks
Cup 3 – fresh pineapple chunks
Cup 4 – banana slices
6. Set cups in the refrigerator. Check the cups the next day.

ANALYSIS

1. What is the purpose of cup 1?
2. What were your independent variables?
3. What is the dependent variable?
4. Write in full sentences why you proved or disproved your hypothesis.
5. Write out your results.