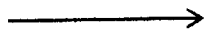


Effect of pH on Enzyme Activity: Liver Lab

Reaction:



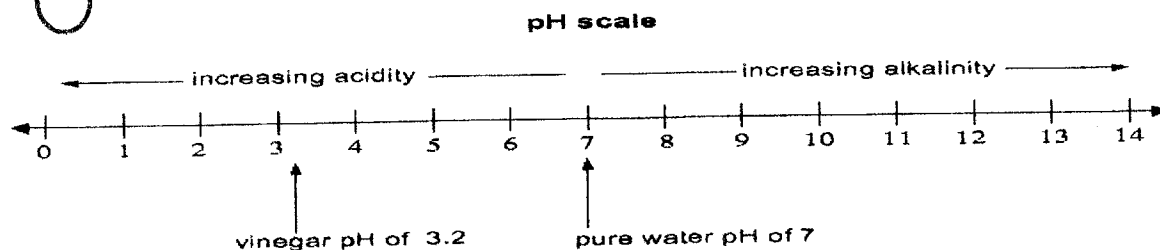
Lock and Key Model

Pretest: 4 Reaction

What 4 Reaction Looks Like (scale 0 – 5)



1. Height in Tube =
2. Frequency of Bubbles =



Prelab Questions:

1. Where is catalase found? _____
2. What compound does catalase break down? _____
3. What gas is observed in this reaction (what causes the bubbles)? _____
4. What is the liquid in the test tube after the reaction has occurred? _____
5. Give an example of a pH reading of a strong acid. _____
6. Give an example of a pH reading of a weak base _____
7. What number on the pH scale represents neutral? _____

Draw and label what goes into each tube.

Steps to Take

1. Label tubes with the appropriate pH value.
Label one tube "Control."
2. Put 0.5 ml catalase in each pH tube.
Put 0.5 ml of water in the control tube.
3. Put 0.5 ml of each pH into appropriate tube.
4. Swirl tubes.
5. Let tubes sit for 10 minutes.
6. Add 0.5 ml H₂O₂ to each tube including the control.
7. Record the reaction rates in data table.

