

### 3. Graphs

concn - x axis = diff. concentrations  
y axis = time

0 - at the end  $\rightarrow$  fastest



pH - x axis = pH

y axis = time



temp - x axis = temp

y axis = time

discussion #s - use data from  
data table she  
gave us

### Discussion

4.3A - pg. 100 #1, 2

4.3B - pg. 103 work

no # question  $\rightarrow$  disc. ? is not  
numbered

4.3C - pg. 107 #1, 2

### Conclusion

Summarize the results.

Explain how changes in  
environment affect  
reaction rate of an enzyme.

- Be specific - concn, pH,  
temp

### 2. Prepare the experimental test tubes (test-tube set II):

- Number a second set (set II) of five standard test tubes 1 through 5.
- Beginning with tube 5 of set I, transfer 2 mL of this enzyme dilution into tube 5 of set II. Use a 5-mL pipette for the transfer. Rinse the pipette in distilled water, and repeat the procedure for tubes 4, 3, 2, and 1, transferring 2 mL of tube 4 (set I) into tube 4 (set II), and so forth. After these transfers have been carried out, test-tube set I will no longer be used and can be set aside.
- Add 2 mL of pH 6.8 buffer solution to each of the tubes in the second set. Mix by rolling the tubes between your hands. Set these tubes aside.
- Add 1 or 2 drops of  $I_2KI$  to each compartment of four rows of a test plate. You will use a separate row for each concentration of amylase.
- Using the second set of tubes, proceed with the tests beginning with tube 5.
  - Using a clean 1-mL pipette, add 1 mL of the 1% starch solution to tube 5 and mix by rolling the tube between your hands. One team member should immediately record the time. This is time 0.
  - Quickly remove 1 drop of the mixture with a disposable pasteur pipette, and add it to a drop of  $I_2KI$  in the first compartment on the test plate (time 0).



Remember, when the enzyme and substrate are together, the reaction has begun!

- Sample the reaction mixture at 10-second intervals, each time using a new compartment of the test plate. Continue until a blue color is no longer produced and the  $I_2KI$  solution remains yellow-amber (indicating the digestion of all the starch). Record the time required for the digestion of the starch in Table 4.6.
- Repeat steps 1 through 4 for the other four concentrations (tubes 4, 3, 2, and 1 of set II).

- Finish recording your findings in the Results section, and state your conclusions in the Discussion section.

### Results

- Complete Table 4.6 as you determine rates of digestion (time of starch disappearance) in different enzyme concentrations.

# Answers For Lab Manual Investigating Biology

**Jean Dickey**



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