

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

Neil A. Campbell, Jane B. Reece



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Table of Contents Answers For Lab Manual Investigating Biology

1. Understanding the eBook Answers For Lab Manual Investigating Biology
 - The Rise of Digital Reading Answers For Lab Manual Investigating Biology
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers For Lab Manual Investigating Biology
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Answers For Lab Manual Investigating Biology
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers For Lab Manual Investigating Biology
 - Personalized Recommendations
 - Answers For Lab Manual Investigating Biology User Reviews and Ratings
 - Answers For Lab Manual Investigating Biology and Bestseller Lists

5. Accessing Answers For Lab Manual Investigating Biology Free and Paid eBooks
 - Answers For Lab Manual Investigating Biology Public Domain eBooks
 - Answers For Lab Manual Investigating Biology eBook Subscription Services
 - Answers For Lab Manual Investigating Biology Budget-Friendly Options
6. Navigating Answers For Lab Manual Investigating Biology eBook Formats
 - ePub, PDF, MOBI, and More
 - Answers For Lab Manual Investigating Biology Compatibility with Devices
 - Answers For Lab Manual Investigating Biology Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers For Lab Manual Investigating Biology
 - Highlighting and Note-Taking Answers For Lab Manual Investigating Biology
 - Interactive Elements Answers For Lab Manual Investigating Biology
8. Staying Engaged with Answers For Lab Manual Investigating Biology
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers For Lab Manual Investigating Biology
9. Balancing eBooks and Physical Books Answers For Lab Manual Investigating Biology
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers For Lab Manual Investigating Biology
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Answers For Lab Manual Investigating Biology
 - Setting Reading Goals Answers For Lab Manual Investigating Biology
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Answers For Lab Manual Investigating Biology
 - Fact-Checking eBook Content of Answers For Lab Manual Investigating Biology
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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