

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

Tao Wei



Answers For Lab Manual Investigating Biology:

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Annot Inst Edit Lab Man Biol 3e /Campbell Benjamin-Cummings Publishing Company, Judith Giles Morgan, 1994-02 **Biology** Joseph S. Levine, Kenneth Raymond Miller, Prentice-Hall Staff, 1998-05 **Biological Investigations Lab Manual** Warren Dolphin, David Vleck, Linda Westgate, James Colbert, 2010-01-27 The lead author of eight successful previous editions has brought together a team that combined has well over 60 years experience in offering beginning biology labs to several thousand students each year at Iowa State University Their experience and diverse backgrounds ensure that this extensively revised edition will meet the needs of a new generation of students Designed to be used with all majors level general biology textbooks the included labs are investigative using both discovery and hypothesis based science methods Students experimentally investigate topics observe structure use critical thinking skills to predict and test ideas and engage in hands on learning Students are often asked what evidence do you have that in order to encourage them to think for themselves By emphasizing investigative quantitative and comparative approaches to the topics the authors continually emphasize how the biological sciences are integrative yet unique An instructor's manual available through McGraw Hill Lab Central provides detailed advice based on the authors experience on how to prepare materials for each lab teachings tips and lesson plans and questions that can be used in quizzes and practical exams This manual is an excellent choice for colleges and universities that want their students to experience the breadth of modern biology

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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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