

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).

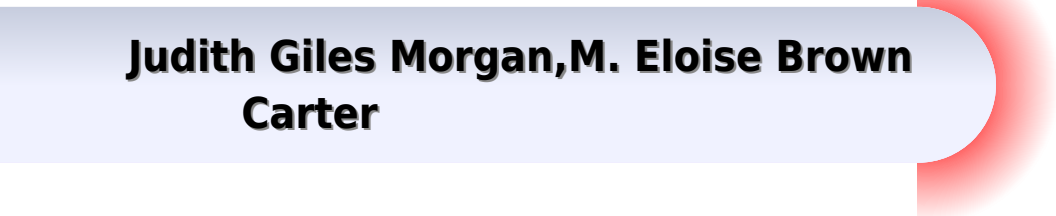
- Finish recording your findings in the Results section, and state your conclusions in the Discussion section.

Results

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

Answers To Investigating Biology Lab Manual

**Judith Giles Morgan, M. Eloise Brown
Carter**



Answers To Investigating Biology Lab Manual:

Investigating Biology Judith Giles Morgan, M. Eloise Brown Carter, 1999 An undergraduate lab manual containing 27 lab exercises designed to encourage students to ask questions pose hypotheses and make predication before they begin lab work Students are required to synthesize results from observations and experiments draw conclusions apply results to new problems and to design their own investigations Scientific writing is emphasized throughout Includes appendices on scientific writing chi square test and terminology and techniques for dissection as well as a section of color photos This edition contains a new lab on cellular respiration and several labs are modified based on new evidence in molecular biology Wire spiral binding Annotation copyrighted by Book News Inc Portland OR [eBook Instant Access for Investigating Biology Lab Manual, Global Edition](#) Jane B. Reece, Lisa A. Urry, Michael L. Cain, Steven A. Wasserman, Peter V. Minorsky, 2015-03-05 NEW Now in full color With its distinctive investigative approach to learning this best selling laboratory manual is now more engaging than ever with full color art and photos throughout As always the lab manual encourages students to participate in the process of science and develop creative and critical reasoning skills The Eighth Edition includes major revisions that reflect new molecular evidence and the current understanding of phylogenetic relationships for plants invertebrates protists and fungi The sequence of the lab topics has been reorganized to reflect the closer relationship of the fungi and animal kingdoms A new lab topic Fungi has been added providing expanded coverage of the major fungi groups The Protists lab topic has been revised and expanded with additional examples of all the major clades Both lab topics include suggestions and exercises for open inquiry investigations In the new edition population genetics is covered in one lab topic with new problems and examples that connect ecology evolution and genetics **Investigating Biology Laboratory Manual** Judith Giles Morgan, M. Eloise Brown Carter, 2014 [Annotated Instructor's Edition for Investigating Biology](#) Judith Giles Morgan, 1999

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laboratory courses can be assembled that would be ideal for science professionals graduate students undergraduate students and even advanced high school students in AP courses The manual is also intended to be useful as a laboratory bench reference The experiments are designed to guide students through realistic research projects and to provide students with instruction in methods and approaches that can be immediately translated into research projects conducted in modern research laboratories Although these experiments have been conducted and optimized over 20 years of teaching the New England Biolabs Molecular Biology Summer Workshops they are real research projects not canned experiments Based on extensive teaching experience using these protocols the authors have found that conducting these experiments as described in these protocols serves to effectively instruct students and science professions in the basic methods of molecular biology An additional unique feature is that the protocols described in the manual are accompanied by available reagent kits that provide quality tested pre packaged reagents to ensure the successful application of these protocols in a laboratory course setting

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Annot Inst Edit Lab Man Biol 3e /Campbell Benjamin-Cummings Publishing Company,Judith Giles Morgan,1994-02

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Investing Biology Pearson Education,2002-11

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