

LAB 8: Enzymes

PURPOSE: Learn how enzymes help chemical reactions take place inside organisms.

Goals for today:

- * describe the interaction between a substrate and an enzyme.
- * explain the results of each catalase experiment.
- * be able to predict experimental results given alternate scenarios with different enzymes.

For all exercises today, follow instructions precisely. Be sure to read all the text and answer all questions in the text.

p. 79-80 Introduction to enzymes

p. 81- 85 section 6.1 Catalase activity

__ set up experiment testing the actions of catalase. *To avoid confusing air bubbles: in this and the following experiments add solutions by gently running them down the test tube wall and do not “swirl to mix”.*

__ set up the experiment testing the effect of temperature on catalase. *During waiting periods you may work ahead, but don't forget to return to these treatments when their time is up.*

__ set up experiment testing the effect of adding more enzyme.

__set up experiment testing the effect of pH on catalase activity.

__summary page 85

Good review: p. 86