



2.5

Enzymes

TEKS 9C

VOCABULARY

catalyst
enzyme
substrate

KEY CONCEPT Enzymes are catalysts for chemical reactions in living things.

MAIN IDEAS

- ⓐ A catalyst lowers activation energy.
- ⓑ Enzymes allow chemical reactions to occur under tightly controlled conditions.

TEKS 9C Identify and investigate the role of enzymes.

Connect to Your World

How can a Venus flytrap digest a frog? It happens through the action of proteins called enzymes. Enzymes help to start and run chemical reactions in living things. For example, enzymes are needed to break down food into smaller molecules that cells can use. Without enzymes, a Venus flytrap couldn't break down its food, and neither could you.

ⓐ MAIN IDEA

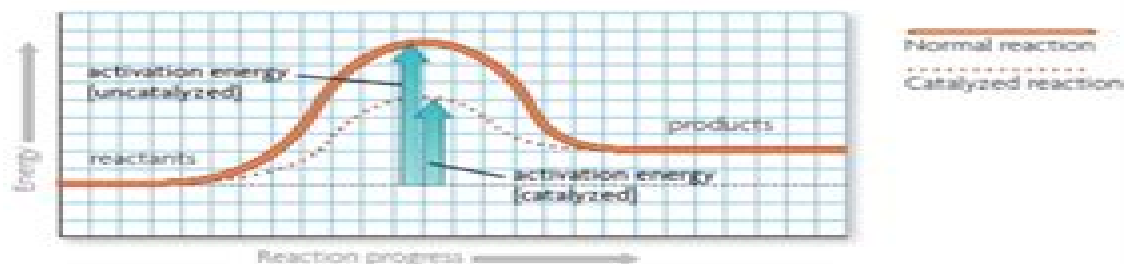
A catalyst lowers activation energy.

Remember what you learned about activation energy in Section 4. Activation energy for a chemical reaction is like the energy that is needed to push a rock up a hill. When enough energy is added to get the rock to the top of a hill, the rock can roll down the other side by itself. Activation energy gives a similar push to a chemical reaction. Once a chemical reaction starts, it can continue by itself, and it will go at a certain rate.

Often, the activation energy for a chemical reaction comes from an increase in temperature. But even after a chemical reaction starts, it may happen very slowly. The reactants may not interact enough, or they may not be at a high enough concentration, to quickly form the products of the reaction. However, both the activation energy and rate of a chemical reaction can be changed by a chemical catalyst, as shown in **FIGURE 5.1**. A **catalyst** (KAT-i-hst) is a substance that decreases the activation energy needed to start a chemical reaction and, as a result, also increases the rate of the chemical reaction.

FIGURE 5.1 CATALYSTS AND ACTIVATION ENERGY

Under normal conditions, a certain amount of activation energy is needed to start a chemical reaction. A catalyst decreases the activation energy needed.



Enzyme Catalysis And Regulation Student Edition

Kathleen Armour



Enzyme Catalysis And Regulation Student Edition:

Enzyme Catalysis and Regulation Gorden Hammes,2012-12-02 Enzyme Catalysis and Regulation is an introduction to enzyme catalysis and regulation and covers topics ranging from protein structure and dynamics to steady state enzyme kinetics multienzyme complexes and membrane bound enzymes Case studies of selected enzyme mechanisms are also presented This book consists of 11 chapters and begins with a brief overview of enzyme structure followed by a discussion on methods of probing enzyme structure such as X ray crystallography and optical spectroscopy Kinetic methods are then described with emphasis on the general principles of steady state and transient kinetics The chemical principles involved in enzyme catalysis are also discussed and case studies of a few well documented enzymes are presented The regulation of enzyme activity is analyzed from a nongenetic viewpoint with particular reference to binding isotherms and models for allosterism Two particular enzymes aspartate transcarbamoylase and phosphofructokinase are used as examples of well studied regulatory enzymes The last two chapters focus on multienzyme complexes and membrane bound enzymes This monograph is intended for graduate students advanced undergraduates and research workers in molecular biology and biochemistry

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National Institutes of Health (U.S.). Division of Research Grants,1967 **Essentials of Medical Biochemistry** Chung Eun Ha,N. V. Bhagavan,2015-04-24 Essentials of Medical Biochemistry Second Edition With Clinical Cases is the most condensed yet detailed biochemistry overview available on the topic It presents contemporary coverage of the fundamentals of biochemistry emphasizing relevant physiologic and pathophysiologic biochemical concepts Pivotal clinical case studies aid in understanding basic science in the context of diagnosis and treatment of human diseases and the text illuminates key topics in molecular immunology and hemostasis Users will find basic and fundamental concepts that will aid students and professionals in biochemistry medicine and other healthcare disciplines the text is a useful refresher that will help users meet USMLE and other professional licensing examination requirements providing thorough introductions key points multicolored illustrations of chemical structures and figures fact filled tables and recommended reading lists Presents essential biochemical concepts within the context of their biological functions Contains key clinical case studies in each chapter to enhance understanding of basic science and aid in further comprehension Offers instructional overview figures flowcharts tables and multicolored illustrations Includes integrated recommended reading reference lists within the text Provides an online ancillary package inclusive of PowerPoint images and more than 500 study questions to aid in comprehension and USMLE exam preparation **Loose-leaf Version for Principles of Life** David M. Hillis,David E. Sadava,Richard W. Hill,Mary V. Price,2013-12-01 With its first edition Principles of Life provided a textbook well aligned with the recommendations proposed in BIO 2010 Transforming Undergraduate Education for Future Research Biologists and Vision

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Enzyme Catalysis Today and the Chemistry of the 21st Century Gertz I. Likhtenshtein, 2025-02-17 This book examines enzymatic reactions from the standpoint of physical chemistry An introductory chapter gives a brief overview of the role of enzymes in metabolism biotechnology and medicine while describing the framework for chemical mimicry of enzyme reactions Subsequent chapters of the book are devoted to a general overview of vital enzyme processes methods of enzyme kinetic reactions the theory of elementary mechanisms oriental dynamic and polar factors affecting enzyme catalysts as well as the current status and prospects of enzyme chemical modeling The book gives particular attention to chemical reactions highly important in modern research efforts such as the conversion of light energy into chemical energy with a high quantum yield photooxidation of water reduction of atmospheric nitrogen and utilization of carbon dioxide in ambient conditions The book is intended for scientists working on enzyme catalysis and the adjacent areas such as chemical modeling of biological

processes homogeneous catalysis biomedical research biotechnology and bioengineering In addition it can serve as secondary instructional material for graduate and undergraduate students of chemistry medicine biochemistry biophysics biophysiology and bioengineering **Heterogeneous Catalysis** Georgii Konstantinovich Boreskov,2003 Table of contents

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