

Enzyme Cut-outs Activity

Objectives: Enzymes are proteins that help chemical reactions occur at a faster rate by lowering the energy needed for the reactions. First, the enzymes react with a substrate to form an enzyme-substrate complex (like a lock and key). Once this complex is formed, the substrate becomes a product or products and leaves the enzyme. The enzyme can then repeat the reaction with more substrate. The enzyme is shaped so it will react with only one specific substrate. On the next page are shapes of enzymes, substrates, and products. Your job will be to cut them out, manipulate them, glue them, and explain the reaction that occurs. Complete Parts A, B, C, D.

Materials

directions and class notes
cut-out sheet

construction paper
scissors

glue
pen or pencil

Part A

Vocabulary—define the following terms (hint: you can use your notes)

enzyme –
catalyst –
chemical reaction –
activation energy –
substrate –
active site –
denatured –

THEN—fold your card strip into four sections.

NEXT – open your card strip and draw a line lengthwise along the middle

THEN: color the diagrams on the white cardstock according to the following:

Enzyme – PINK

Triangular Substrate – PURPLE

Product 1 – BLUE

Product 2 – RED

Square Substrate 1 – YELLOW

Square Substrate 2 – BLUE

Rectangular Product – GREEN

Part B: HYDROLYSIS

1. In the first block of your strip, label the TOP with the word **Hydrolysis**

Then - Using the enzyme cut-out card stock paper, cut out all of the triangular shaped enzymes, substrates, and products.

2. **ACROSS THE TOP:** Organize the cut outs on the remaining blocks of your strip as the pieces demonstrate this equation:

enzyme + substrate → enzyme-substrate complex → enzyme + product 1 + product 2

3. Glue the cut outs in the appropriate places on the construction paper and then label each block with the above terms.

Enzyme Cut Out Activity Answers Key

Eileen Ramsden



Enzyme Cut Out Activity Answers Key:

Key Science for International Schools Eileen Ramsden,1998 Includes a Teacher s Guide including teaching notes guidance on the range of activities for coursework equipment lists and answers to all questions Additional assessment to enrich extend and tailor the context of the Key Science textbooks for international schoolsA Mother Tongue glossary to help students access the textbooksAdditional multiple choice questionsAlternative practical exercises with sample mark schemes

The Science Teacher's Activity-A-Day, Grades 5-10 Pam Walker,Elaine Wood,2010-10-05 A hands on and fun filled resource for teaching science to middle and high school students New in the 5 Minute Fundamentals Series The Science Teacher s Activity A Day Grades 6 12 includes 180 easy five minute hook or sponge activities to capture learners attention and introduce lessons Divided into three units Physical Science Life Science and Earth and Space Science the activities cover topics based on the National Science Education Standards All the book s activities can be done with materials that are inexpensive and easy to find Includes quick and fun sponge activities that are designed to engage students All the activities take about 5 minutes to complete The Science Teacher s Activity a Day is an ideal resource for middle and high school science teachers *CBSE Class 12 Biology Handbook - MINDMAPS, Solved Papers, Objective Question Bank & Practice Papers* Disha Experts,2019-07-19

Clinical Immunology and Serology Christine Dorresteyn Stevens,Linda E Miller,2016-10-05 The perfect balance of theory and practice Here s the must have information you need to understand the essential principles of immunology and to master the serology techniques most commonly used in the laboratory Easy to read student friendly coverage focuses on the direct application of theory to clinical laboratory practice preparing you for the real world in which you will practice The 4th Edition of this popular text has been completely updated and revised throughout to reflect the latest advances in the field A brand new full color layout makes the content easier to understand than ever before

Fresh-Cut Fruits and Vegetables Olusola Lamikanra,2002-02-14 A comprehensive reference for the emerging fresh cut fruits and vegetable industry Fresh cut Fruits and Vegetables Science Technology and Market focuses on the unique biochemical physiological microbiological and quality changes in fresh cut processing and storage It highlights the distinct equipment design packaging requirements production economics and marketing considerations for fresh cut products Based on the extensive research in this area during the last 10 years this reference is the first to cover the complete spectrum of science technology and marketing issues related to this field **Molecular Devices and Machines** Vincenzo

Balzani,Alberto Credi,Margherita Venturi,2008-04-09 Targeted at a broad audience ranging from chemists and biochemists to physicists and engineers this book covers advanced research while being written in an easily understandable language accessible to any interested researcher or graduate student Following an introduction to the general concepts the authors go on to discuss devices for processing electrons and electronic energy memories logic gates and related systems and finally molecular scale machines *Handbook of Food Preservation* Mohammad Shafiur Rahman,2020-06-10 The processing of

food is no longer simple or straightforward but is now a highly inter disciplinary science A number of new techniques have developed to extend shelf life minimize risk protect the environment and improve functional sensory and nutritional properties Since 1999 when the first edition of this book was published it has facilitated readers understanding of the methods technology and science involved in the manipulation of conventional and newer sophisticated food preservation methods The Third Edition of the Handbook of Food Preservation provides a basic background in postharvest technology for foods of plant and animal origin presenting preservation technology of minimally processed foods and hurdle technology or combined methods of preservation Each chapter compiles the mode of food preservation basic terminologies and sequential steps of treatments including types of equipment required In addition chapters present how preservation method affects the products reaction kinetics and selected prediction models related to food stability what conditions need be applied for best quality and safety and applications of these preservation methods in different food products This book emphasizes practical cost effective and safe strategies for implementing preservation techniques for wide varieties of food products Features Includes extensive overview on the postharvest handling and treatments for foods of plants and animal origin Describes comprehensive preservation methods using chemicals and microbes such as fermentation antimicrobials antioxidants pH lowering and nitrite Explains comprehensive preservation by controlling of water structure and atmosphere such as water activity glass transition state diagram drying smoking edible coating encapsulation and controlled release Describes preservation methods using conventional heat and other forms of energy such as microwave ultrasound ohmic heating light irradiation pulsed electric field high pressure and magnetic field Revised updated and expanded with 18 new chapters the Handbook of Food Preservation Third Edition remains the definitive resource on food preservation and is useful for practicing industrial and academic food scientists technologists and engineers

Chemistry Extension File Eileen Ramsden,2002 This chemistry extension file includes teaching notes guidance on coursework activities and equipment It has at least one assignment for each topic in the textbooks suitable for classwork and homework A comprehensive range of practical activities are included It contains extensive Key Skills and ICT materials An exam file resource containing a complete set of exam style questions in a format that can be used throughout Years 10 and 11 or as a resource for a revision programme is included

Mere Creation William A. Dembski,1998-09-28 In this book a team of expert academics trained in mathematics engineering philosophy physical anthropology physics astrophysics biology and more investigate the prospects for intelligent design Edited by William Dembski

Practical Biochemistry for Colleges E. J. Wood,2012-12-02 This book presents a selection of tried and trusted laboratory experiments in the field of biochemistry The experiments are described in detail and can be used directly or in a modified form They are grouped according to a broad range of biochemical disciplines which allows those responsible for arranging practical classes to select experiments to complement any given biochemistry course Suggestions are made for further work in more advanced classes As well as the practical

method the experiments are accompanied by background information discussion of results references for further study and illustrations

Medical Biochemistry N. V. Bhagavan, 1992 Thoroughly updated and in a new two color format this well respected text presents the fundamentals of biochemistry and related topics to students pursuing a one or two semester course in pre med biochemistry or medical programs The second edition is equally applicable to other health related fields such as clinical chemistry medical technology or pharmacology Medical Biochemistry Fourth Edition focuses on the foundations and clinically relevant applications of normal human biochemistry and pathology Abundantly illustrated with four color plates Revised chapters on molecular biology reflect the latest research in the field Two color throughout with four color plates Reference quality appendices include practical information on clinical lab parameters used to diagnose a range of diseases

Biology for Health S. H. Cedar, 2017-09-16 This textbook takes a unique approach by linking the elements of anatomy and physiology A P with everyday activities we all do without thinking the Activities of Daily Living such as breathing or eating in order to explain biological systems and making complex ideas and biological processes easier to understand and relate to practice By connecting A P with health healthcare and wellbeing the author s exceptional understanding of students needs contributes to a comprehensive book As an essential anatomy and physiology textbook that uses accessible language everyday examples and connects to your course this is the ultimate companion to any student Whether you re studying nursing health midwifery paramedic science or sport and exercise this introductory text will offer a head start

Nutrition (ENHANCED eBook) Edward P. Ortleb, 1997-09-01 This book presents the basic concepts associated with the scientific study of food and its relationship to the human body Important nutritional information is presented to aid students in evaluating their own eating habits Each of the twelve teaching units in this book is introduced by a color transparency print books or PowerPoint slide eBooks that emphasizes the basic concept of the unit and presents questions for discussion Reproducible student pages provide reinforcement and follow up activities The teaching guide offers descriptions of the basic concepts to be presented background information suggestions for enrichment activities and a complete answer key

Human Biology Daniel Chiras, 2012 Written for the introductory human biology course the Seventh Edition of Chiras acclaimed text maintains the original organizational theme of homeostasis presented in previous editions to present the fundamental concepts of mammalian biology and human structure and function Chiras discusses the scientific process in a thought provoking way that asks students to become deeper more critical thinkers The focus on health and homeostasis allows students to learn key concepts while also assessing their own health needs An updated and enhanced ancillary package includes numerous student and instructor tools to help students get the most out of their course

Cassava Andri Frediansyah, 2024-02-21 Cassava is a staple crop in many nations due to its adaptability to a wide range of climates It has expanded across tropical Asia sub Saharan Africa and Latin America Cassava noted for its high carbohydrate content is third in carbohydrate content after rice and maize Cassava Recent Updates on Food Feed and Industry is the

second edition of our previous book *Cassava Biology Production and Use* This new edition has four sections The first section discusses the perspectives of several countries on cassava including food security and the circular economy Due to the importance of cassava in many countries the second section examines recent biotechnological advances as well as soil management and modifications in the improvement of cassava The third section discusses disease management and control of cassava plants Due to its widespread use and industrial importance cassava has been subjected to biological and technological intervention for processing into food feed and other industrial matter which is covered in the final section We hope that this book will help readers gain advanced knowledge about cassava and learn from experts in the field with multiple perspectives

Plant Protein and Proteome Atlas--Integrated Omics Analyses of Plants under Abiotic Stresses
Tingyun Kuang,Xuchu Wang,Xiaochun Qin,Shaojun Dai,Pingfang Yang,Ling Li,2020-05-22 Integrative omics of plants in response to stress conditions play more crucial roles in the post genomic era High quality genomic data provide more deeper understanding of how plants to survive under environmental stresses This book is focused on concluding the recent progress in the Protein and Proteome Atlas in plants under different stresses It covers various aspects of plant protein ranging from agricultural proteomics structure and function of proteins and approaches for protein identification and quantification A total of 27 papers including two timely reviews have contributed to this Special Issue In the first part with the topic of Comparative Proteomics of Different Plants six papers were included to describe the phenotypic changes and proteomic analyses of different plants under different conditions Then another six papers with the topic of Proteomics of Plants under Osmotic Stress were included to describe the recent comparative proteomics analyses of plants under osmotic stress particularly the drought and salinity stresses in leaves of certain plant species The other proteomics studies on several energy plants and economic crops were reported to demonstrate the recent omics studies on different plants during their development processes More stress responsive genes and proteins in these plants were identified These target genes and proteins are important candidates for further functional validation in economic plants and crops

Enzyme Kinetics: Catalysis and Control Daniel L. Purich,2010-06-16 Far more than a comprehensive treatise on initial rate and fast reaction kinetics this one of a kind desk reference places enzyme science in the fuller context of the organic inorganic and physical chemical processes occurring within enzyme active sites Drawing on 2600 references *Enzyme Kinetics Catalysis Control* develops all the kinetic tools needed to define enzyme catalysis spanning the entire spectrum from the basics of chemical kinetics and practical advice on rate measurement to the very latest work on single molecule kinetics and mechanoenzyme force generation while also focusing on the persuasive power of kinetic isotope effects the design of high potency drugs and the behavior of regulatory enzymes Historical analysis of kinetic principles including advanced enzyme science Provides both theoretical and practical measurements tools Coverage of single molecular kinetics Examination of force generation mechanisms Discussion of organic and inorganic enzyme reactions

Pancreas and Beta Cell Replacement Wayne

Hawthorne,2022-04-21 Pancreas and Beta Cell Replacement is the inaugural volume of the Regenerative and Transplant Medicine series The idea for this new book series spawned from the observation that the regenerative medicine field is progressing at such a fast pace that the way we currently think and practice transplant medicine is rapidly changing faster than we could ever imagine This series was therefore conceived to bring together experts from both the transplant and regenerative medicine fields to share knowledge first but also to introduce the transplant audience to the remarkable progress that has occurred in regenerative medicine over the past few decades At the same time we intend to illustrate to researchers and operators in the regenerative medicine field the numerous platforms that transplant medicine offers for the application of their technologies To the publisher and the editors of this series and volumes there is no doubt that regenerative medicine will shape and define the future of transplant medicine This volume focuses on pancreas and beta cell replacement and illustrates how progress in biomaterial sciences stem cell biology gene editing cell tissue and organ bioengineering and regeneration along with advances in xenotransplantation are revolutionizing the field Written by the world s experts in the fields of pancreas islet and xenotransplantation as well as regenerative medicine it represents a valuable educational tool for those in the fields of clinical transplantation researchers in the field of regenerative medicine transplant medicine diabetes and immunology as well as for medical and health science students those in academia the biotech industry and regulatory agencies working to advance the field At the end of the book it will become clear to the reader that beta cell replacement offers a vast array of platforms for the application of regenerative medicine technologies to transplant medicine First volume in the Regenerative and Transplant Medicine series focusing on the pancreas Includes an overview of the field including developments of transplantation methods and techniques Builds on previous works and demonstrates how regenerative and transplant medicine work together to provide an increased ability to improve health care outcomes for individuals **The Science Teacher** ,2008 *Lipid and Polymer-Lipid Systems* T. Nylander,B.

Lindman,2003-07-01 The renewed and increasing interest in lipid self assembly phase behaviour and interfacial properties can be related to both a much improved insight in biological systems and the applications of lipids in food and pharmaceutical industry in the latter the development of drug delivery systems based on lipids has become in focus Amphiphilic systems comprise lipids surfactants as well as different types of polymers including block and graft copolymers Research on biological amphiphiles has often been conducted separate from research on synthetic ones However in recent years a very fruitful convergence between the two fields has evolved These new perspectives on fundamental research and applications of lipids are discussed in these proceedings from an international symposium on Lipid and Polymer Lipid systems October 2000 in Chia Laguna in Italy a joint undertaking of Prof Maura Monduzzi at Cagliari University Italy and Camurus Lipid Research Foundation Lund Sweden

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