

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

Matthew Broderick, Timothy Chadwick



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 schools A Mother Tongue glossary to help students access the textbooks Additional multiple choice questions Alternative practical exercises with sample mark schemes

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 *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

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 **CSIR NET Life Sciences Question Bank** Mocktime Publication, This targeted question bank for the CSIR NET in Life Sciences is designed to cover the entire syllabus for both general aptitude Part A and subject specific MCQs Parts B C It includes downloadable PDFs of previous year papers topic wise question sets annotated answer keys and full length mock tests Candidate interviews emphasise that solving past papers deeply helps reveal the important themes and recurring question styles in Life Sciences Suitable books linked to this bank also include comprehensive notes on cell biology molecular biology genetics physiology ecology and evolution aligned to the NET syllabus The exam pattern remains the same as overall CSIR NET structure 150 total questions individual sections with defined numbers to attempt The question bank helps build time management accuracy in MCQs and analytical application in Part C 4 marks each Over time students can track performance

via sectional tests and previous paper trends Given the highly competitive nature of NET using this question bank consistently can help aspirants strengthen weak areas simulate exam conditions and gain confidence ahead of the actual exam

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

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

Applied Linguistics Perspectives on CLIL Ana Llinares, Tom Morton, 2017-03-16 This book represents the first collection of studies on Content and Language Integrated Learning CLIL which brings together a range of perspectives through which CLIL has been investigated within Applied Linguistics The book aims to show how the four perspectives of Second Language Acquisition SLA Systemic Functional Linguistics SFL Discourse Analysis and Sociolinguistics highlight different important aspects of CLIL as a context for second language development Each of the four sections in the book opens with an overview of one of the perspectives written by a leading scholar in the field and is then followed by three empirical studies which focus on specific aspects of CLIL seen from this perspective Topics covered include motivation the use of tasks pragmatic development speech functions in spoken interaction the use of evaluative language in expressing content knowledge in writing multimodal interaction assessment for learning L1 use in the classroom English medium instruction in universities and CLIL teachers professional identities

Breakthrough to CLIL for Biology Age 14+ Workbook Matthew Broderick, Timothy Chadwick, 2015-10-29 A series of workbooks offering integrated content and language support for specific subjects Breakthrough to CLIL for Biology Age 14 helps ESL EAL students get the most out of their studies when learning subjects through the medium of English The workbook contains exercises set within the context of core topics to consolidate understanding embedding practice in aspects of language central to the subject in question It is designed to support any Biology curriculum for students aged 14 16 including UK GCSE Cambridge IGCSE and IB MYP The

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