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KEY=EXPERIMENT - KARTER ALYSON

The Osmosis of Potato Strips

Essay from the year 2018 in the subject Biology - General, Basics, language: English, abstract: The aim of this paper is to investigate the change in mass potato strips over a period of two hours when immersed in distilled water (hypotonic solution) and salty water (hypertonic solution). Research Question: How does the size of potato strips when immersed in both distilled water and salty water change over a period of 2 and half hours measured at 30 minutes intervals? Background Information: Osmosis is one of the physiological processes in living organisms, among them active transport and diffusion. Osmosis is the movement of water molecules from a region of low concentration to a region of high concentration across the semi-permeable membrane. In plants it makes cells to be turgid while in animals it offsets the osmotic pressures in the cell. Plant cells are hypertonic because they have a cell sap, so when they are put in distilled water (hypotonic solution), it absorbs water by osmosis, swells up and become turgid. They do not burst because they have a cell wall that develops a wall pressure that balances the turgor pressure exerted by turgid cells. As the plant gains turgidity, its volume increases until it achieves maximum turgidity, water will then start moving out of the cell to balance the pressure in the cells and outside environment.

Laboratory Topics in Botany

Macmillan Offers several exercises within each topic that can be selected for coverage that suits individual course needs. Questions and problems follow each topic. This edition includes new topics, new exercises, and refinements and updating throughout.

Biology Homework for OCR A for Double and Separate Awards

Heinemann This series is for schools following OCR A double or separate award for GCSE science. The resources offer preparation for the OCR exams with teacher support to minimise time spent on administration. The teacher's resources are available on CD-ROM in a fully customizable format.

Discovery Science 3/2e-mauritius

Pearson Education South Asia

New Sci Discovery Lower Sec Pwb 1 E/na

Pearson Education South Asia

Biology for the IB Diploma Study and Revision Guide

Hodder Education Stretch your students to achieve their best grade with these year round course companions; providing clear and concise explanations of all syllabus requirements and topics, and practice questions to support and strengthen learning. - Consolidate revision and support learning with a range of exam practice questions and concise and accessible revision notes - Practise exam technique with tips and trusted guidance from examiners on how to tackle questions - Focus revision with key terms and definitions listed for each topic/sub topic

Assessment resource bank

Nelson Thornes Bring your science lessons to life with Scientifica. Providing just the right proportion of 'reading' versus 'doing', these engaging resources are differentiated to support and challenge pupils of varying abilities.

Cell Physiology Source Book

Essentials of Membrane Biophysics

Elsevier This authoritative book gathers together a broad range of ideas and topics that define the field. It provides clear, concise, and comprehensive coverage of all aspects of cellular physiology from fundamental concepts to more advanced topics. The Third Edition contains substantial new material. Most chapters have been thoroughly reworked. The book includes chapters on important topics such as sensory transduction, the physiology of protozoa and bacteria, the regulation of cell division, and programmed cell death. Completely revised and updated - includes 8 new chapters on such topics as membrane structure, intracellular chloride regulation, transport, sensory receptors, pressure, and olfactory/taste receptors Includes broad coverage of both animal and plant cells Appendixes review basics of the propagation of action potentials, electricity, and cable properties Authored by leading experts in the field Clear, concise, comprehensive coverage of all aspects of cellular physiology from fundamental concepts to more advanced topics

Biology

McGraw-Hill Science, Engineering & Mathematics This one- or two-semester laboratory manual helps students develop critical and creative reasoning skills in investigating science. Respected author Sylvia Mader provides step-by-step procedures and hands-on activities to help students master and visualize the concepts of biology.

Biology Laboratory Manual

McGraw-Hill Science, Engineering & Mathematics Mader includes revised coverage of animal behaviour and ecology as well as a wealth of new focus boxes which highlight topics of high interest and relate biology to everyday life. This text is linked to a web site offering extended chapter outlines.

Interactive Science For Inquiring Minds Volume A Practical Workbook Express/Normal (Academic)

Panpac Education Pte Ltd

A Complete Course in Certificate Biology

Pitambar Publishing

Interactive Science Practical Book 2A Special/ Express/ Normal (Academic)

Panpac Education Pte Ltd

Biology for OCR A for Separate Award

Heinemann This series is for schools following OCR A double or separate award for GCSE science. The resources offer preparation for the OCR exams with teacher support to minimise time spent on administration. The teacher's resources are available on CD-ROM in a fully customizable format.

Biology

Heinemann Biology is part of the Heinemann Coordinated Science series and covers all of the content needed for Coordinated Science at the top grades in the foundation tier or the higher tier of the examination.

More Biology in the Laboratory

Macmillan [This book] is designed to encourage and give direction to the natural urge to inquire about living things: what they are, and how and why they work as they do ... One intention in writing this manual was to assure that learning in the laboratory need not depend on expensive, elaborately furnished facilities. Thus, requirements for materials and equipment have been kept to a minimum.-Pref.

Sif Biology OI Tb

Pearson Education South Asia

Biology for OCR A for Double Award

Heinemann This series is for schools following OCR A double or separate award for GCSE science. The resources offer preparation for the OCR exams with teacher support to minimise time spent on administration. The teacher's resources are available on CD-ROM in a fully customizable format.

The American Biology Teacher

Molecular Biology of the Cell

Food Properties Handbook, Second Edition

CRC Press Dramatically restructured, more than double in size, the second edition of the Food Properties Handbook has been expanded from seven to 24 chapters. In the more than ten years since the publication of the internationally acclaimed and bestselling first edition, many changes have taken place in the approaches used to solve problems in food preservation, processing, storage, marketing, consumption, and even after consumption. Incorporating changes too numerous to list, this updated edition provides new measurement techniques, basic data compiled for diversified food groups, worked-out examples, and detailed graphs and illustrations. Explores Empirical and Theoretical Prediction Models The book clearly defines the terminology and elucidates the theory behind the measurement techniques, including applications and limitations of each method. It includes data on sources of error in measurement techniques and experimental data from the literature in graphical or tabular form. The volume also elucidates empirical and theoretical prediction models for different foods with processing conditions, descriptions of the applications of the properties, and coverage of where and how to use the data and models in food processing. User-Friendly Format Puts the Latest Information within Easy Reach Still under the aegis of Shafir Rahman, the new edition is now an edited volume, benefitting from the input and expertise of numerous contributors spanning both the globe and the many disciplines that influence the field. Presented in a user-friendly format, the second edition remains the definitive, and arguably the only, source for data on physical, thermal, thermodynamic, structural, and acoustic properties of foods.

Adventures in Thinking

A Workbook in Biology

Biology for You Support Pack

Nelson Thornes This Support Pack has been fully revised and updated with additional guidance on developing the new specifications, activities, ICT support, technician 'cards,' additional revision and assessment material including past paper questions and model answers.

A-level Biology Sif Biology NI Tb

Pearson Education South Asia

Multicomponent Diffusion

Elsevier Multicomponent Diffusion discusses the multicomponent diffusion of the three phases of matter. The book is comprised of nine chapters that cover studies of multicomponent diffusion and mass transfer with an emphasis on the chemical characteristics responsible for multicomponent diffusion. Chapter 1 provides an introductory discourse about multicomponent diffusion. Chapter 2 discusses binary diffusion, while Chapter 3 covers multicomponent flux equation. The measurement of ternary diffusion and the estimation of ternary diffusion coefficients are also explained in the book. A chapter then covers the interacting systems, and the subsequent chapter talks about membranes without mobile carriers. The text also discusses carrier-containing membranes and the multicomponent mass transfer. The book will be of great use to researchers and professionals whose work requires a good understanding of multicomponent diffusion.

Cliffsnotes AP Biology 2021 Exam

Cliffs Notes CliffsNotes AP Biology 2021 Exam gives you exactly what you need to score a 5 on the exam: concise chapter reviews on every AP Biology subject, in-depth laboratory investigations, and full-length model practice exams to prepare you for the May 2021 exam. Revised to even better reflect the new AP Biology exam, this test-prep guide includes updated content tailored to the May 2021 exam. Features of the guide focus on what AP Biology test-takers need to score high on the exam: Reviews of all subject areas In-depth coverage of the all-important laboratory investigations Two full-length model practice AP Biology exams Every review chapter includes review questions and answers to pinpoint problem areas.

Cambridge IGCSE® Biology Coursebook with CD-ROM

Cambridge University Press This edition of our successful series to support the Cambridge IGCSE Biology syllabus (0610) is fully updated for the revised syllabus for first examination from 2016. Written by an experienced teacher and examiner, Cambridge IGCSE Biology Coursebook with CD-ROM gives comprehensive and accessible coverage of the syllabus content. Suggestions for practical activities are included, designed to help develop the required experimental skills, with full guidance included on the CD-ROM. Study tips throughout the text, exam-style questions at the end of each chapter and a host of revision and practice material on the CD-ROM are designed to help students prepare for their examinations. Answers to the exam-style questions in the Coursebook are provided on the CD-ROM.

Cambridge IGCSE Biology Laboratory Practical Book

Hodder Education Improve your students' scientific skills and report writing with achievable experiments and simple structured guidance. This Laboratory Practical Book supports the teaching and learning of the practical assessment element of the Cambridge IGCSE Biology Syllabus. Using this book, students will interpret and evaluate experimental observations and data. They will also plan investigations, evaluate methods and suggest possible improvements. - Demonstrates the essential techniques, apparatus, and materials that students require to become accomplished scientists - Improves the quality of written work with guidance, prompts and experiment writing frames - Develops experimental skills and abilities through a series of investigations - Prepares students for the Practical paper or the Alternative, with past exam questions Answers are available on the Teacher's CD: <http://www.hoddereducation.co.uk/Product?Product=9781444196306> This title has not been through the Cambridge International endorsement process.

Standard Methods for the Examination of Water and Wastewater

"The signature undertaking of the Twenty-Second Edition was clarifying the QC practices necessary to perform the methods in this manual. Section in Part 1000 were rewritten, and detailed QC sections were added in Parts 2000 through 7000. These changes are a direct and necessary result of the mandate to stay abreast of regulatory requirements and a policy intended to clarify the QC steps considered to be an integral part of each test method. Additional QC steps were added to almost half of the sections."--Pref. p. iv.

Potato Chip Science

29 Incredible Experiments

Workman Publishing Provides experiments associated with a bag of potato chips: bags, chips, lids, spuds, and tubes.

Pollution Abstracts

National 5 Biology with Answers

A full course textbook for the new National 5 Biology syllabus, endorsed by SQA! This book is designed to act as a valuable resource for pupils studying National 5 Biology. It provides a core text which adheres closely to the SQA syllabus, with each section of the book matching a unit of the syllabus, and each chapter corresponding to a content area. It is an ideal - and comprehensive - teaching and learning resource for National 5 Biology. In addition to the core text, the book contains a variety of special features: Learning Activities, Testing Your Knowledge, What You Should Know, and Applying Knowledge and Skills. - The only textbook for the National 5 Biology syllabus offered by SQA, as examined 2014 onwards - Bestselling author team, with extremely high reputation for Scottish Biology titles - Full colour presentation and motivating text design to encourage student enthusiasm

College Biology I

Cambridge International AS & A Level Biology Practical Workbook

Cambridge University Press This practical write-in workbook is the perfect companion for the coursebook. It contains step-by-step guided investigations and practice questions for Cambridge International AS & A Level Biology teachers and students. Through practical investigation, it provides opportunities to develop skills- planning, identifying equipment, creating hypotheses, recording results, analysing data, and evaluating. The workbook is ideal for teachers who find running practical experiments difficult due to lack of time, resources or support. Sample data- if students can't do the experiments themselves - and answers to the questions are in the teacher's resource.

Strategies to Reduce Sodium Intake in the United States

National Academies Press Reducing the intake of sodium is an important public health goal for Americans. Since the 1970s, an array of public health interventions and national dietary guidelines has sought to reduce sodium intake. However, the U.S. population still consumes more sodium than is recommended, placing individuals at risk for diseases related to elevated blood pressure. Strategies to Reduce Sodium Intake in the United States evaluates and makes recommendations about strategies that could be implemented to reduce dietary sodium intake to levels recommended by the Dietary Guidelines for Americans. The book reviews past and ongoing efforts to reduce the sodium content of the food supply and to motivate consumers to change behavior. Based on past lessons learned, the book makes recommendations for future initiatives. It is an excellent resource for federal and state public health officials, the processed food and food service industries, health care professionals, consumer advocacy groups, and academic researchers.

Osmotically Driven Membrane Processes

Approach, Development and Current Status

BoD - Books on Demand Osmotically driven membrane processes (ODMPs) including forward osmosis (FO) and pressure-retarded osmosis (PRO) have attracted increasing attention in fields such as water treatment, desalination, power generation, and life science. In contrast to pressure-driven membrane processes, e.g., reverse osmosis, which typically employs applied high pressure as driving force, ODMPs take advantages of naturally generated osmotic pressure as the sole source of driving force. In light of this, ODMPs possess many advantages over pressure-driven membrane processes. The advantages include low energy consumption, ease of equipment maintenance, low capital investment, high salt rejection, and high water flux. In the past decade, over 300 academic papers on ODMPs have been published in a variety of application fields. The number of such publications is still rapidly growing. The ODMPs' approach, fabrications, recent development and applications in wastewater treatment, power generation, seawater desalination, and gas absorption are presented in this book.

The Mathematics of Diffusion

Oxford University Press Though it incorporates much new material, this new edition preserves the general character of the book in providing a collection of solutions of the equations of diffusion and describing how these solutions may be obtained.

Sticky Cotton

Measurements and Fiber Processing

Texas Tech University Press "Study of stickiness on cotton fibers caused by sugar deposits produced by the plant itself or by honeydew from insects (usually aphids and whiteflies) feeding on cotton. Examines contamination impact on fiber processing, yarn quality, and textile production and discusses various technologies and methods for detection and measurement"--Provided by publisher.

Concepts of Biology

Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand. We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the book, adapting it to the approach that works best in their classroom. Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.