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Completely revised new editions of the market-leading Chemistry textbooks for HL and SL, written for the new 2014 Science IB Diploma curriculum. Now with an accompanying four-year student access to an enhanced eText, containing simulations, animations, quizzes, worked solutions, videos and much more. The enhanced eText is also available to buy separately and works on desktops and tablets - click here to watch a video to learn more. Follows the organizational structure of the new Chemistry guide, with a focus on the Essential Ideas, Understanding, Applications & Skills for complete syllabus-matching. Written by the highly experienced IB author team of Catrin Brown and Mike Ford, with additional e-features by Richard Thornley and David Moore, you can be confident that you and your students have all the resources you will need for the new Chemistry curriculum. Features: Nature of Science and ToK boxes throughout the text ensure an embedding of these core considerations and promote concept-based learning. Applications of the subject through everyday examples are described in utilization boxes, as well as brief descriptions of related industries, to help highlight the relevance and context of what is being learned. Differentiation is offered in the Challenge Yourself exercises and activities, along with guidance and support for laboratory work on the page and online. Exam-style assessment opportunities are provided from real past papers, along with hints for success in the exams, and guidance on how to avoid common pitfalls. Clear links are made to the Learner profile and the IB core values. Table of Contents: Stoichiometric Relationships Atomic Structure Periodicity Chemical Bonding and Structure Energetics/Thermochemistry Chemical Kinetics Equilibrium Acids and Bases Redox Processes Organic Chemistry Measurement and Data Processing Option A: Materials Option B: Biochemistry Option C: Energy Option D: Medicinal Chemistry

This comprehensive resource provides readers with the tools necessary to perform analysis of various waveforms for use in radar systems. It provides information about how to produce synthetic aperture (SAR) images by giving a tomographic formulation and implementation for SAR imaging. Tracking filter fundamentals, and each parameter associated with the filter and how each affects tracking performance are also presented. Various radar cross section measurement techniques are covered, along with waveform selection analysis through the study of the ambiguity function for each particular waveform from simple linear frequency modulation (LFM) waveforms to more complicated coded waveforms. The text includes the Python tool suite, which allows the reader to analyze and predict radar performance for various scenarios and applications. Also provided are MATLAB® scripts corresponding to the Python tools. The software includes a user-friendly graphical user interface (GUI) that provides visualizations of the concepts being covered. Users have full access to both the Python and MATLAB source code to modify for their application. With examples using the tool suite are given at the end of each chapter, this text gives readers a clear understanding of how important target scattering is in areas of target detection, target tracking, pulse integration, and target discrimination.

This book discusses the importance of identifying and addressing misconceptions for the successful teaching and learning of science across all levels of science education from elementary school to high school. It suggests teaching approaches based on research data to address students' common misconceptions. Detailed descriptions of how these instructional approaches can be incorporated into teaching and learning science are also included. The science education literature extensively documents the findings of studies about students' misconceptions or alternative conceptions about various science concepts. Furthermore, some of the studies involve systematic approaches to not only creating but also implementing instructional programs to reduce the incidence of these misconceptions among high school science students. These studies, however, are largely unavailable to classroom practitioners, partly because they are usually found in various science education journals that teachers have no time to refer to or are not readily available to them. In response, this book offers an essential and easily accessible guide.

In this, our Second Edition of *Reproduction in Mammals*, we are responding to numerous requests for a more up-to-date and rather more detailed treatment of the subject. The First Edition was accorded an excellent reception, but the first five books were written ten years ago and inevitably there have been advances on many fronts since then. As before, the manner of presentation is intended to make the subject matter interesting to read and readily comprehensible to undergraduates in the biological sciences, and yet with sufficient depth to provide a valued source of information to graduates engaged in both teaching and research. Our

authors have been selected from among the best known in their respective fields. This volume discusses the manifold ways in which hormones control the reproductive processes in male and female mammals. The hypothalamus regulates both the anterior and posterior pituitary glands, whilst the pineal can exert a modulating influence on the hypothalamus. The pituitary gonadotrophins regulate the endocrine and gametogenic activities of the gonads, and there are important local feedback effects of hormones within the gonads themselves. Non-pregnant females display many different types of oestrous or menstrual cycles, and there are likewise great species differences in the endocrinology of pregnancy. But the hallmark of mammals is lactation, and this also exerts a major control on subsequent reproductive activity. This book offers physiology teachers a new approach to teaching their subject that will lead to increased student understanding and retention of the most important ideas. By integrating the core concepts of physiology into individual courses and across the entire curriculum, it provides students with tools that will help them learn more easily and fully understand the physiology content they are asked to learn. The authors present examples of how the core concepts can be used to teach individual topics, design learning resources, assess student understanding, and structure a physiology curriculum.

The compartmentation of genetic information is a fundamental feature of the eukaryotic cell. The metabolic capacity of a eukaryotic (plant) cell and the steps leading to it are overwhelmingly an endeavour of a joint genetic cooperation between nucleus/cytosol, plastids, and mitochondria. Alter ation of the genetic material in anyone of these compartments or exchange of organelles between species can seriously affect harmoniously balanced growth of an organism. Although the biological significance of this genetic design has been vividly evident since the discovery of non-Mendelian inheritance by Baur and Correns at the beginning of this century, and became indisputable in principle after Renner's work on interspecific nuclear/plastid hybrids (summarized in his classical article in 1934), studies on the genetics of organelles have long suffered from the lack of respectability. Non-Mendelian inheritance was considered a research sideline~ifnot a freak~by most geneticists, which becomes evident when one consults common textbooks. For instance, these have usually impeccable accounts of photosynthetic and respiratory energy conversion in chloroplasts and mitochondria, of metabolism and global circulation of the biological key elements C, N, and S, as well as of the organization, maintenance, and function of nuclear genetic information. In contrast, the heredity and molecular biology of organelles are generally treated as an adjunct, and neither goes as far as to describe the impact of the integrated genetic system.

With a wealth of questions, this book gives your students the practice they need to deepen their understanding of the syllabus content and achieve exam success. - The perfect resource to use throughout the course to ensure you learn the topics and practice the syllabus content. - Contains a wealth of levelled questions, including Stretch and Challenge for higher ability students. - Plenty of exam-style questions and actual exam questions from past Cambridge exam papers for exam success. Answers to all questions are available on the accompanying Teacher's CD. This title has not been through the Cambridge International endorsement process.

Like its predecessors, this new edition offers a balanced introduction to the human body especially developed to meet the needs of the one-semester course. It provides an effective blend of stunning art and clearly written text to illuminate the complexities of the human body. Class-tested pedagogy is woven into the narrative and figures to ensure that students gain a solid understanding of the material.

Plant Cell Organelles contains the proceedings of the Phytochemical Group Symposium held in London on April 10-12, 1967. Contributors explore most of the ideas concerning the structure, biochemistry, and function of the nuclei, chloroplasts, mitochondria, vacuoles, and other organelles of plant cells. This book is organized into 13 chapters and begins with an overview of the enzymology of plant cell organelles and the localization of enzymes using cytochemical techniques. The text then discusses the structure of the nuclear envelope, chromosomes, and nucleolus, along with chromosome sequestration and replication. The next chapters focus on the structure and function of the mitochondria of higher plant cells, biogenesis in yeast, carbon pathways, and energy transfer function. The book also considers the chloroplast, the endoplasmic reticulum, the Golgi bodies, and the microtubules. The final chapters discuss protein synthesis in cell organelles; polysomes in plant tissues; and lysosomes and spherosomes in plant cells. This book is a valuable source of information

for postgraduate workers, although much of the material could be used in undergraduate courses.

Published to glowing praise in 1990, *Science for All Americans* defined the science-literate American--describing the knowledge, skills, and attitudes all students should retain from their learning experience--and offered a series of recommendations for reforming our system of education in science, mathematics, and technology. *Benchmarks for Science Literacy* takes this one step further. Created in close consultation with a cross-section of American teachers, administrators, and scientists, *Benchmarks* elaborates on the recommendations to provide guidelines for what all students should know and be able to do in science, mathematics, and technology by the end of grades 2, 5, 8, and 12. These grade levels offer reasonable checkpoints for student progress toward science literacy, but do not suggest a rigid formula for teaching. *Benchmarks* is not a proposed curriculum, nor is it a plan for one: it is a tool educators can use as they design curricula that fit their student's needs and meet the goals first outlined in *Science for All Americans*. Far from pressing for a single educational program, *Project 2061* advocates a reform strategy that will lead to more curriculum diversity than is common today. *Benchmarks* emerged from the work of six diverse school-district teams who were asked to rethink the K-12 curriculum and outline alternative ways of achieving science literacy for all students. These teams based their work on published research and the continuing advice of prominent educators, as well as their own teaching experience. Focusing on the understanding and interconnection of key concepts rather than rote memorization of terms and isolated facts, *Benchmarks* advocates building a lasting understanding of science and related fields. In a culture increasingly pervaded by science, mathematics, and technology, science literacy require habits of mind that will enable citizens to understand the world around them, make some sense of new technologies as they emerge and grow, and deal sensibly with problems that involve evidence, numbers, patterns, logical arguments, and technology--as well as the relationship of these disciplines to the arts, humanities, and vocational sciences--making science literacy relevant to all students, regardless of their career paths. If Americans are to participate in a world shaped by modern science and mathematics, a world where technological know-how will offer the keys to economic and political stability in the twenty-first century, education in these areas must become one of the nation's highest priorities. Together with *Science for All Americans*, *Benchmarks for Science Literacy* offers a bold new agenda for the future of science education in this country, one that is certain to prepare our children for life in the twenty-first century.

New York Times Bestseller! "New, scientifically-based approaches that recognize the biological basis of addiction have brought major advances in the treatment of addiction. Dr. Urschel is at the forefront of this treatment paradigm." Dr. Larry Hanselka, Psychologist *The Proven Scientific Approach to Conquering Addiction and Defeating the Disease Healing the Addicted Brain* is a breakthrough work that focuses on treating drug and alcohol addiction as a biological disease--based on the Recovery Science program that has helped thousands of patients defeat their addictions over the past 10 years. It combines the best behavioral addiction treatments with the latest scientific research into brain functions, providing tools and strategies designed to overcome the biological factors that cause addictive behavior along with proven treatments and medications. Using this scientific approach, you will learn to conquer the physical factors that keep people tied to drug and alcohol addiction. The proven fact is addiction is not a moral failing or an issue of not having enough willpower. It is a disease of the brain that can and must be treated like other chronic medical illnesses--such as diabetes, hypertension, or asthma--in order to defeat the disease. This revolutionary program can triple the success rate of patients, from 20-30% to 90% *There Is Hope*. By understanding addiction and using 21st-century breakthroughs, for the first time drug and alcohol addiction can be, and will be, defeated.

A top-selling teacher resource line, *The 100+ Series(TM)* features over 100 reproducible activities in each book! --The worksheets in these books will give students the practice they need to become grammar experts. This book offers a wide variety of activities that provide a knowledge of the rules and regulations of proper English usage. Some of the basic skills addressed are alphabetical order, synonyms, antonyms, homonyms, parts of speech, plurals, verb tenses, punctuation, sentences, and possession. The activities are also illustrated to enhance student motivation.

"Industrial Maintenance and Mechatronics provides support for an Industrial Technology Maintenance (ITM) program. It covers the principal industrial technology disciplines, with a focus on electrici-

cal systems and electronic controls. It provides students with the necessary knowledge for entry-level positions in industrial maintenance and prepares them for NIMS Level 1 credentialing"--

This must-read for lovers of Stephen King's *The Shining* will leave readers breathless as Seda and her family find themselves at the mercy of a murderer in an isolated and snowbound hotel. Get ready for what Kirkus calls "A bloody, wonderfully creepy scare ride." When her mom inherits an old, crumbling mansion, Seda's almost excited to spend the summer there. The grounds are beautiful and it's fun to explore the sprawling house with its creepy rooms and secret passages. Except now her mom wants to renovate, rather than sell the estate—which means they're not going back to the city...or Seda's friends and school. As the days grow shorter, Seda is filled with dread. They're about to be cut off from the outside world, and she's not sure she can handle the solitude or the darkness it brings out in her. Then a group of teens get stranded near the mansion during a blizzard. Seda has no choice but to offer them shelter, even though she knows danger lurks in the dilapidated mansion—and in herself. And as the snow continues to fall, what Seda fears most is about to become her reality...

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.

Normally Indigo Tea Shop owner Theodosia Browning wouldn't attend a black-tie affair for all the tea in China. But she can hardly say no to her boyfriend, who directs public relations for the Gibbes Museum in Charleston. Max has organized an amazing gala opening for an exhibit of a genuine eighteenth-century Chinese teahouse, and the *cr me de la cr me* of Charleston society is invited. But the evening takes a turn for the worse when Theodosia discovers the body of museum donor Edgar Webster. When Max becomes a suspect, it's up to Theodosia to solve the case. Scientific terminology arranged in dictionary form with a full page discussion of the history, root, and meaning of each word.

The classic personal account of Watson and Crick's groundbreaking discovery of the structure of DNA, now with an introduction by Sylvia Nasar, author of *A Beautiful Mind*. By identifying the structure of DNA, the molecule of life, Francis Crick and James Watson revolutionized biochemistry and won themselves a Nobel Prize. At the time, Watson was only twenty-four, a young scientist hungry to make his mark. His uncompromisingly honest account of the heady days of their thrilling sprint against other world-class researchers to solve one of science's greatest mysteries gives a dazzlingly clear picture of a world of brilliant scientists with great gifts, very human ambitions, and bitter rivalries. With humility un-

spoiled by false modesty, Watson relates his and Crick's desperate efforts to beat Linus Pauling to the Holy Grail of life sciences, the identification of the basic building block of life. Never has a scientist been so truthful in capturing in words the flavor of his work.

Fun and challenging activities help develop basic skills such as vocabulary, and build critical thinking and problem solving skills.

International Review of Cytology

Endocrine Disruptors in the Environment A concise and engaging overview of endocrine disruption phenomena that brings complex concepts within the reach of non-specialists For most of the last decade, the science of endocrine disruption has evolved with more definitive evidence of its damaging potential to health and environment. This book lists the major environmental chemicals of concern and their mechanism of endocrine disruption including remedial measures for them. Divided into three parts, Endocrine Disruptors in the Environment begins with an overview of the endocrine system and endocrine disruptors, discussing their salient features and presenting a historical perspective of endocrine disruption phenomena. It then goes on to cover hormone-signaling mechanisms, followed by various broad classes of putative endocrine disruptors, before introducing readers to environmental epigenetic modifications. Part two of the book focuses on removal processes of various EDCs by biotic and abiotic transformation/degradation. The last section consists of four chapters embracing themes on finding solutions to environmental EDCs—including their detection, regulation, replacement, and remediation. Endocrine Disruptors in the Environment is the first book to detail the endocrine effects of several known environmental contaminants and their mechanism of endocrine disruption. Additionally, it: Covers both the chemistry and biology of endocrine disruption and compiles almost all the known endocrine disrupting environmental chemicals and their mechanisms of toxicity Addresses policy and regulatory issues relevant to EDCs including scientific uncertainty and precautionary policy Brings forth the use of Green Chemistry principles in avoiding endocrine disruption in the designing and screening for safer chemicals and remediation of the EDCs in aquatic environment Includes a useful glossary of technical terms, a list of acronyms, topical references, and a subject index Endocrine Disruptors in the Environment is an ideal book for environmental chemists and endocrine toxicologists, developmental biologists, endocrinologists, epidemiologists, environmental health scientists and advocates, and regulatory officials tasked with risk assessment in environment and health areas.

Male Reproductive Function gives an up-to-date review on the physiology and disease processes associated with the male reproductive system. The first few chapters describe the regulation of the functions of the testis and the integration of its components: germ cells, Sertoli cells and Leydig cells. This is followed by a description of puberty and aging, and the disorders or dysfunction that may be associated with these physiological processes. Discussions on the current methods for the diagnosis and treatment of male hypogonadism, male infertility and male sexual dysfunction follow, with detailed descriptions of types of androgen replacement and the benefits and risks of such treatment. The book concludes with the development of male contraception and the possible influence of the environment on the male reproductive system. Male Reproductive Function represents a conglomeration of the efforts of experts in andrology from all over the world, both in basic cellular/molecular biology as well as in clinical science and practice. This book is suitable for endocrinologists, urologists, general internists, gynecologists and other students in the field of male reproduction.

Project Success is a blended-learning digital and print course with a strong focus on workplace skills, career readiness, and 21st century challenges. This unique video-based series engages learners

with high-interest video vignettes that represent a "day in the life" of characters in diverse workplace settings that may simulate their own. Integrated skills lessons encourage critical thinking and problem solving woven into the students' English language learning journey.

Biology of Disease describes the biology of many of the human disorders and disease that are encountered in a clinical setting. It is designed for first and second year students in biomedical science programs and will also be a highly effective reference for health science professionals as well as being valuable to students beginning medical school. Real cases are used to illustrate the importance of biology in understanding the causes of diseases, as well as in diagnosis and therapy.

A top-selling teacher resource line, The 100+ Series(TM) features over 100 reproducible activities in each book! Give your students the reinforcement they need to learn and retain the knowledge taught in a high school biology course. Diagrams, puzzles, multiple choice, and matching columns will enhance any current biology text and laboratory experience. The worksheets included cover every area of biology, including cells, plants, laboratory equipment, animals, insects, and more!

RNA and Protein Synthesis is a compendium of articles dealing with the assay, characterization, isolation, or purification of various organelles, enzymes, nucleic acids, translational factors, and other components or reactions involved in protein synthesis. One paper describes the preparatory scale methods for the reversed-phase chromatography systems for transfer ribonucleic acids. Another paper discusses the determination of adenosine- and aminoacyl adenosine-terminated sRNA chains by ion-exclusion chromatography. One paper notes that the problems involved in preparing acetylaminoacyl-tRNA are similar to those found in peptidyl-tRNA synthesis, in particular, to the lability of the ester bond between the amino acid and the tRNA. Another paper explains a new method that will attach fluorescent dyes to cytidine residues in tRNA; it also notes the possible use of N-hydroxysuccinimide esters of dansylglycine and N-methylanthranilic acid in the described method. One paper explains the use of membrane filtration in the determination of apparent association constants for ribosomal protein-RNS complex formation. This collection is valuable to bio-chemists, cellular biologists, micro-biologists, developmental biologists, and investigators working with enzymes.

This book is designed to meet the needs of students studying for Veterinary Nursing and related fields. It may also be useful for anyone interested in learning about animal anatomy and physiology. It is intended for use by students with little previous biological knowledge. The book has been divided into 16 chapters covering fundamental concepts like organic chemistry, body organization, the cell and then the systems of the body. Within each chapter are lists of Websites that provide additional information including animations.

In 900 text pages, Campbell Biology in Focus emphasizes the essential content and scientific skills needed for success in the college introductory course for biology majors. Each unit streamlines content to best fit the needs of instructors and students, based on surveys, curriculum initiatives, reviews, discussions with hundreds of biology professors, and careful analyses of course syllabi. Every chapter includes a Scientific Skills Exercise that builds skills in graphing, interpreting data, experimental design, and math—skills biology majors need in order to succeed in their upper-level courses. This briefer book upholds the Campbell hallmark standards of accuracy, clarity, and pedagogical innovation.

A top-selling teacher resource line, The 100+ Series(TM) features over 100 reproducible activities in each book! Organized by specific reading skills, this book is designed to enhance students' reading comprehension. Lively reading passages present high-