Dolphin Lab Manual

This independent lab manual can be used for a one or two-semester majors level general biology lab and can be used with any majors-level general biology textbook. The labs are investigative and ask students to use more critical thinking and hands-on learning. The author emphasizes investigative, quantitative, and comparative approaches to studying the life sciences..

Genetic Variation: A Laboratory Manualis the first compendium of protocols specifically geared towards genetic variation studies, and includes thorough discussions on their applications for human and model organism studies. Intended for graduate students and professional scientists in clinical and research settings, it covers the complete spectrum of genetic variation—from SNPs and microsatellites to more complex DNA alterations, including copy number variation. Written and edited by leading scientists in the field, the early sections of the manual are devoted to study design and generating genotype data, the use of resources such as HapMap and dbSNP, as well as experimental, statistical, and bioinformatic approaches for analyzing the data. The final sections include descriptions of genetic variation in model organisms and discussions of recent insights into human genetic ancestry, forensics, and human variation.

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These action packed kits contain a 32-page manual with full, easy-to-follow instructions to perform experiments, make observations, baffle the eye, and explore the natural world. Kits come complete with enough supporting components to get any young scientist or curious explorer started.

A young girl learns she’s half mermaid and plunges into a scheme to reunite with her father in this entrancing, satisfying tale that beckons readers far below the waves. For as long as she can remember, twelve-year-old Emily Windsnap has lived on a boat. And, oddly enough, for just as long, her mother has seemed anxious to keep Emily away from the water. But when Mom finally agrees to let her take swimming lessons, Emily makes a startling discovery — about her own identity, the mysterious father she’s never met, and the thrilling possibilities and perils shimmering deep below the water’s surface. With a sure sense of suspense and richly imaginative details, first-time author Liz Kessler lures us into a glorious undersea world where mermaids study shipwrecks at school and Neptune rules with an iron trident — an enchanting fantasy about family secrets, loyal friendship, and the convention-defying power of love.

Exploring Biology in the Laboratory: Core Concepts is a comprehensive manual appropriate for introductory biology lab courses. This edition is designed for courses populated by nonmajors or for majors courses where abbreviated coverage is desired. Based on the two-semester version of Exploring Biology in the Laboratory, 3e, this Core Concepts edition features a streamlined set of clearly written activities with abbreviated coverage of the biodiversity of life. These exercises emphasize the unity of all living things and the evolutionary forces that have resulted in, and continue to act on, the diversity that we see around us today.

This book is designed to provide a sound foundation for subsequent mathematics and math-related courses. Chapter 1 presents a comprehensive review of basic algebraic concepts, and Chapter 2 offers a general introduction to functions and graphs. Chapters 3 through 5 are devoted to a study of trigonometry. With its early introduction, we are able to reinforce trigonometric concepts throughout the remainder of the text. Included in the text are numerous Check Your Understanding boxes with problems that challenge the student's understanding of newly introduced concepts. Detailed solutions of those problems appear in an Appendix.

Exercises at the end of each section, covering the gamut of difficulty, provide ample opportunities to hone mathematical skills. Moreover, at the end of each chapter, in addition to Chapter Review Exercises there are Cumulative Review Exercises addressing topics of the current and previous chapters. Graphing calculator glimpses primarily designed to illuminate concepts appear throughout the text. In the final analysis, however, one cannot escape the fact that MATHEMATICS DOES NOT RUN ON BATTERIES A case in point: While graphing calculators can certainly graph most functions better and faster than any of us, learning to sketch them by hand requires an understanding of important concepts, and serves to reinforce those concepts. A student solutions manual with the solutions to odd-numbered exercises is also available.

Sharks and dolphins both have torpedo-shaped bodies with fins on their backs. They slice through the water to grab their prey with sharp teeth. But despite their similarities, sharks and dolphins belong to different animal classes: one is a fish and gets oxygen from the water and the other is a mammal and gets oxygen from the air. Marine educator Kevin Kurtz guides early readers to compare and contrast these ocean predators through stunning photographs and simple, nonfiction text.

Biological Investigations Lab ManualMcGraw-Hill Science, Engineering & Mathematics

Clearly explaining the how to of stress management and prevention, STRESS MANAGEMENT FOR LIFE, 4e emphasizes experiential learning and encourages students to personalize text information through practical applications and a tool box of stress-reducing resources, including activities and online stress-relief audio files. Michael Olpin and Margie Hesson offer more than just a book about stress; they offer students a life-changing experience. Well-researched and engaging, the Fourth Edition empowers students to experience personal wellness by understanding and managing stress, gives stress-related topics a real-life context, and motivates students to manage stress in a way that accommodates their lifestyle, values, and goals. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Lab Manual

Journey back through childhood classics like Peter Pan, Alice's Adventures in Wonderland, and more in this adorable picture book about the joys of reading! There is nothing like a book to take you to places you've never been. Best friends Foxy and Piggy can't wait to tell each other about all of their adventures in reading! Flying over Neverland, swimming with a mermaid, joining in a mad tea party, soaring on a magic carpet—old classics come to life in the eyes of two little readers who can't believe what they've seen. Journey back to old favorites and experience the magic all over again in this adorable picture book about the joys of reading!

This interactive Science Lab Kit teaches kids everything they need to know to become energy scientists capable of using, harnessing, and saving precious energy. The fully illustrated manual is packed with fun activities and comes with an exciting range of components to use in 40 different experiments: magnets, pipette, balloons, copper strips, crocodile clips, glow stick wire, glow-in-the-dark sheet, and three sheets of card templates. From these simple objects, kids can design a hovercraft, build a simple electric motor, make a wind speed detector, and much more. Energy Lab features brightly colored graphics, easy-to-follow directions, and sturdy packaging for durability.

Optical illusions are fun visual tricks that confuse and surprise the brain. Inquisitive kids will discover the secrets behind the world of optical illusions in this exciting new book. Step-by-step instructions for 50 easy-to-do experiments include liquid illusions, mirrors, kaleidoscopes, and 3-D images. By using common household items with the materials included in the book, kids will be off exploring the fascinating world of optical illusions in no time. Seeing is believing!

INTRODUCTION TO MARINE BIOLOGY sparks curiosity about the marine world and provides an understanding of the process of science. Taking an ecological approach and intended for non-science majors, the text provides succinct coverage of the content while the photos and art clearly illustrate key concepts. Studying is made easy with phonetic pronunciations, a running glossary of key terms, end-of-chapter questions, and suggestions for further reading at the end of each chapter. The open look and feel of INTRODUCTION TO MARINE BIOLOGY and the enhanced art program convey the beauty and awe of life in the ocean. Twenty spectacular photos open the chapters, piquing the motivation and attention of students, and over 60 photos and pieces of art are new or redesigned. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Designed to be used with all majors-level general biology textbooks, the included labs are investigative, using both discovery- and hypothesis-based science methods. Students experimentally investigate topics, observe structure, use critical thinking skills to predict and test ideas, and engage in hands-on learning. By emphasizing investigative, quantitative, and comparative approaches to the topics, the authors continually emphasize how the biological sciences are integrative, yet unique. This manual is an excellent choice for colleges and universities that want their students to experience the breadth of modern biology encouraged them to think for themselves. An instructor's manual, provides detailed advice based on the authors' experience on how to prepare materials for each lab, teachings tips and lesson plans, and questions that can be used in quizzes and practical exams

The Biology Laboratory Manual by Vodopich and Moore was designed for an introductory biology course with a broad survey of basic laboratory techniques. The experiments and procedures are simple, safe, easy to perform, and especially appropriate for large classes. Few experiments require more than one class meeting to complete the procedure. Each exercise includes many photographs, traditional topics, and experiments that help students learn about life. Procedures within each exercise are numerous and discrete so that an exercise can be tailored to the needs of the students, the style of the instructor, and the facilities available.

Balancing breadth and depth of coverage, this text is tailored to a one-semester mammalogy course appropriate for upper level undergraduates and graduate students with a basic background in vertebrate biology.

In this new book, renowned dog trainer Kathy Sdao reveals how her journey through life and her decades of experience training marine mammals and dogs led her to reject a number of sacred cows including the leadership model of dog training.

The classic thriller about a hostile foreign power infiltrating American politics: “Brilliant . . . wild and exhilarating.” —The New Yorker A war hero and the recipient of the Congressional Medal of Honor, Sgt. Raymond Shaw is keeping a deadly secret—even from himself. During his time as a prisoner of war in North Korea, he was brainwashed by his Communist captors and transformed into a deadly weapon—a sleeper assassin, programmed to kill without question or mercy at his captors’ signal. Now he’s been returned to the United States with a covert mission: to kill a candidate running for US president . . . This “shocking, tense” and sharply satirical novel has become a modern classic, and was the basis for two film adaptations (San Francisco Chronicle). “Crammed with suspense.” —Chicago Tribune “Condon is wickedly skillful.” —Time

"This book introduces you to R, RStudio, and the tidyverse, a collection of R packages

designed to work together to make data science fast, fluent, and fun. Suitable for readers with no previous programming experience"--

The lead author of eight successful previous editions has brought together a team that combined, has well over 60 years experience in offering beginning biology labs to several thousand students each year at Iowa State University. Their experience and diverse backgrounds ensure that this extensively revised edition will meet the needs of a new generation of students. Designed to be used with all majors-level general biology textbooks, the included labs are investigative, using both discovery- and hypothesis-based science methods. Students experimentally investigate topics, observe structure, use critical thinking skills to predict and test ideas, and engage in hands-on learning. Students are often asked, “what evidence do you have that...” in order to encourage them to think for themselves. By emphasizing investigative, quantitative, and comparative approaches to the topics, the authors continually emphasize how the biological sciences are integrative, yet unique. An instructor's manual, available through McGraw-Hill Lab Central, provides detailed advice based on the authors’ experience on how to prepare materials for each lab, teachings tips and lesson plans, and questions that can be used in quizzes and practical exams. This manual is an excellent choice for colleges and universities that want their students to experience the breadth of modern biology.

This richly illustrated book, created to accompany the traveling exhibition of the same name, provides a fascinating critical overview of Ant Farm, the radical architecture collective that brought us Cadillac Ranch, Media Burn, and The Eternal Frame. Established by several young renegade architects in 1968, Ant Farm was a collaborative art and design group eager to bring to its practice a revolutionary spirit more consistent with the times. Its vision encompassed creations for a nomadic lifestyle, including inflatable structures and radical environments that culminated in projects such as the organically appointed House of the Century and the unrealized aquatic edifice The Dolphin Embassy. Ant Farm 1968-1978 explores the sweeping career of this inspired and inspiring visionary collective as its architectural projects broadened to embrace a range of undertakings that challenged the visual architecture of image, icon, and power. Constance Lewallen provides an in-depth, anecdotally rich interview with founding members Chip Lord, Doug Michels, and Curtis Schreier. An essay by Michael Sorkin gives the multivalent cultural context for Ant Farm's radical architecture. Steve Seid takes a comprehensive look at Ant Farm's influential videotapes. Caroline Maniaque's "Searching for Energy" details the group's inflatable structures in relationship to contemporaneous architects working in a similar vein. The catalog also includes a substantial excerpt from Chip Lord's 1976 meditation on car culture, with a new epilogue; a graphically playful timeline recounting Ant Farm's essential art projects; and a rich montage of images and ephemera capturing the humor, originality, and prescience of this feisty enterprise. A joint publication with the Berkeley Art Museum

The hidden brain is the voice in our ear when we make the most important decisions in our lives—but we’re never aware of it. The hidden brain decides whom we fall in love with and whom we hate. It tells us to vote for the white candidate and convict the dark-skinned defendant, to hire the thin woman but pay her less than the man doing the same job. It can direct us to safety when disaster strikes and move us to extraordinary acts of altruism. But it can also be manipulated to turn an ordinary person into a suicide terrorist or a group of bystanders into a mob. In a series of compulsively readable narratives, Shankar Vedantam journeys through the latest discoveries in neuroscience, psychology, and behavioral science to uncover the darkest corner of our minds and its decisive impact on the choices we make as individuals and as a society. Filled with fascinating characters, dramatic storytelling, and cutting-edge science, this is an engrossing exploration of the secrets our brains keep from us—and how they are revealed.

This manual contains the solutions to all of the odd-numbered traditional Exercises, and to all (including even-numbered) Cumulative Review Exercises and final Review Problems, in the textbook: PRECALCULUS WITH EARLY TRIGONOMETRY by G. Viglino and M. Berger Also included in this manual are the solutions of many odd-numbered exercises that stretch one's understanding of the material.

Developed to accompany the Brooker et al.: Biology text; this lab manual focuses on labs that are investigative and ask students to use more critical thinking and hands-on learning. The author emphasizes investigative, quantitative, and comparative approaches to studying the life sciences.

Did the Woodstock generation reject science—or re-create it? An “enthralling” study of a unique period in scientific history (New Scientist). Our general image of the youth of the late 1960s and early 1970s is one of hostility to things like missiles and mainframes and plastics—and an enthusiasm for alternative spirituality and getting “back to nature.” But this enlightening collection reveals that the stereotype is overly simplistic. In fact, there were diverse ways in which the era’s countercultures expressed enthusiasm for and involved themselves in science—of a certain type. Boomers and hippies sought a science that was both small-scale and big-picture, as exemplified by the annual workshops on quantum physics at the Esalen Institute in Big Sur, or Timothy Leary’s championing of space exploration as the ultimate “high.” Groovy Science explores the experimentation and eclecticism that marked countercultural science and technology during one of the most colorful periods of American history. “Demonstrate[s] that people and groups strongly ensconced in the counterculture also embraced science, albeit in untraditional and creative ways.”—Science “Each essay is a case history on how the hippies repurposed science and made it cool. For the academic historian, Groovy Science establishes the ‘deep mark on American culture’ made by the countercultural innovators. For the non-historian, the book reads as if it were infected by the hippies’ democratic intent: no jargon, few convoluted sentences, clear arguments and a sense of delight.”—Nature “In the late 1960s and 1970s, the mind-expanding modus operandi of the counterculture spread into the realm of science, and sh-t got wonderfully weird. Neurophysiologist John Lilly tried to talk with dolphins. Physicist Peter Phillips launched a parapsychology lab at Washington University. Princeton physicist Gerard O’Neill became an evangelist for space colonies. Groovy Science is a new book of essays about this heady time.”—Boing Boing

In the 1970's, a hippie college student falls in love with a female dolphin.