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Explores the appearance, characteristics, and behavior of protists and fungi, lifeforms which are neither plants nor animals, using specific examples such as algae, mold, and mushrooms.

In Team Teaching Science, Ed Linz, Mary Jane Heater, and Lori A. Howard demonstrate the truth in the old adage "Two heads are better than one." This guide for developing

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successful team-teaching partnerships that maximize student learning will help preservice and inservice special education and science teachers in grades K - 12, as well as methods professors in science education programs who want to cover special needs issues in their curriculum. Using both research-based practices and personal insight from experienced team teachers, the authors strive to make team

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teachng beneficial for students and accessible for teachers. Linz, Heater, and Howard provide background information on science teaching and team teaching and, most important, six chapters on how to teach specific science topics and how a co-teaching team can proceed through the school year. The basic elements of collaboration are introduced, along with chapters on co-teaching strategies to implement

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in elementary, middle, and high school classrooms. The authors, who have years of co-teaching experience, offer practical advice that teachers can apply to their own classrooms. Teaching a diverse group of students is one challenge teachers will likely encounter in a team-teaching environment; the authors address the difficulties that may arise, as well as issues related to assessment, curriculum, and necessary

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accommodations and modifications. For those tackling the challenges of team teaching, this book will prove to be a valuable resource for making team teaching a positive experience for both students and teachers.

Models and modelling play a central role in the nature of science, in its conduct, in the accreditation and dissemination of its outcomes, as well as forming a bridge to technology. They

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therefore have an important place in both the formal and informal science education provision made for people of all ages. This book is a product of five years collaborative work by eighteen researchers from four countries. It addresses four key issues: the roles of models in science and their implications for science education; the place of models in curricula for major science subjects; the ways that models can

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be presented to, are learned about, and can be produced by, individuals; the implications of all these for research and for science teacher education. The work draws on insights from the history and philosophy of science, cognitive psychology, sociology, linguistics, and classroom research, to establish what may be done and what is done. The book will be of interest to researchers in science education and

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to those taking courses
of advanced study
throughout the world.

The Science Lover's
Illustrated Guide to how
Life Grows, Develops,
Reproduces, and Gets
Along

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Developing Models in
Science Education
Protists and Fungi
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**An overview of biology
outlines the sixteen key
principles of life, the**

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integral to this field,
including the science of
ornamental horticulture,
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craftsmanship, and business management skills. ORNAMENTAL HORTICULTURE offers students a practical view of the business skills required to be successful in this growing industry, while also giving them the chance to develop their own creativity. Extensive full color illustrations, detailed list of objectives, and comprehensive review questions will help students monitor their progress. Important Notice: Media content referenced within the

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Viruses and mycoplasma-like organisms; Field inspection; Seed treatment; Weed seed; Insect pests; Fungal pathogens; Bacterial pathogens; Nematode pest; Organisms causing grain discoloration and damage. STEM Labs for Life Science by Mark Twain includes 26 fun, integrated labs that help students understand concepts such as: -life -human body systems -ecosystems This middle school life science book encourages students to collaborate and communicate to solve real-

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world problems. The *STEM Labs for Life Science* book for sixth–eighth grades features introductory materials to explain *STEM* education concepts and provides materials for instruction and assessment. Correlated to meet current state standards, each lab combines the following essential *STEM* concepts:

- communication
- creativity
- teamwork
- critical thinking

The Mark Twain Publishing Company provides classroom decorations and supplemental books for

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middle-grade and upper-grade classrooms. These products are designed by leading educators and cover science, math, behavior management, history, government, language arts, fine arts, and social studies.

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

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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

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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,

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*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.
All Lab, No Lecture
The Way Life Works
Ocean Book: an
Introduction to the Study
of Marine Animals and
Plate Tectonics
The Nature of Life
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About Being Human
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Perfect for middle- and high-school students and DIY enthusiasts, this full-color guide teaches you the basics of biology lab work and shows you how to set up a safe lab at home. Features more than 30 educational (and fun) experiments.

Human Anatomy, Media Update, Sixth Edition builds upon the clear and concise explanations of the best-selling Fifth Edition with a dramatically improved art and photo program, clearer explanations and readability, and more

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integrated clinical coverage. Recognized for helping students establish the framework needed for understanding how anatomical structure relates to function, the text's engaging descriptions now benefit from a brand-new art program that features vibrant, saturated colors as well as new side-by-side cadaver photos. New Focus figures have been added to help students grasp the most difficult topics in anatomy. This is the standalone book. If you want the package order

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*of the Human Body, A
Addressing the regulation
of the eukaryotic cell
cycle, this book brings
together experts to cover
all aspects of the field,
clearly and unambiguously,
delineating what is
commonly accepted in the
field from the problems
that remain unsolved. It
will thus appeal to a
large audience: basic and
clinical scientists
involved in the study of
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senescence, apoptosis, and
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Maier have helped students

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twenty years in the classroom

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book, Biology: Science for Life

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Fourth Edition, they continue to

use stories and current issues,

such as discussion of cancer to

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teach cell division, to connect biology to student's lives. Learning Outcomes are new to this edition and integrated within the book to help professors guide students' reading and to help students assess their understanding of biology. A new Chapter 3, "Is It Possible to Supplement Your Way to Better Health? Nutrients and Membrane Transport," offers an engaging storyline and focused coverage on micro- and macro-nutrients, antioxidants, passive and active transport, and exocytosis and endocytosis. This package contains: Biology: Science for Life with Physiology,

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Fourth Edition

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.

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Aimed at secondary school science and English teachers, this book presents practical advice for developing good student writing in science and

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mathematics. Five main sections cover: (1) an essay development workshop; (2) 47 specific writing assignments; (3) over 30 questions teachers ask about science writing, and the answers; (4) an anthology of 43 selections of science writing from Shakespeare, Darwin, Freud, Carl Sagan, Rachel Carson, and others; and (5) an annotated bibliography of over 150 books useful for the teaching of science writing. An appendix by Russel W. Kenyon discusses teaching math writing. (RS)

A Manual of Rice Seed Health Testing

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for supplies and an

introduction to mushroom

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biology, plus essays on the use of psychoactive mushrooms in traditional and modern contexts and ethnobotanical advice exploring medicinal use and the plant-human relationship.

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and sequence requirements of a typical two-semester Advanced Placement® biology course. The text provides comprehensive coverage of foundational research and core biology concepts through an evolutionary lens. Biology for AP® Courses was designed to meet and exceed the requirements of the College Board's AP® Biology framework while allowing significant flexibility for instructors. Each section of the book includes an introduction based on the AP® curriculum and includes rich features that engage students in scientific practice and AP® test preparation; it also highlights careers and research opportunities in biological sciences. This lab manual is designed for A Level and first-year undergraduate students of general biology. It is split into 40 separate experiments, all of which have been designed to enhance students' deductive

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and reasoning powers. Pupils are expected to describe the results of the experiments, reason why they achieved these results and be prepared to explain the biological processes that have occurred.

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thinking skills they need to become responsible citizens of the world. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

In spite of the fact that the process of meiosis is fundamental to inheritance, surprisingly little is understood about how it actually occurs. There has recently been a flurry of research activity in this area and this volume summarizes the advances coming from this work. All authors are recognized and respected research scientists at the forefront of research in meiosis. Of particular interest is

the emphasis in this volume on meiosis in the context of gametogenesis in higher eukaryotic organisms, backed up by chapters on meiotic mechanisms in other model organisms. The focus is on modern molecular and cytological techniques and how these have elucidated fundamental mechanisms of meiosis. Authors provide easy access to the literature for those who want to pursue topics in greater depth, but reviews are comprehensive so that this book may become a standard reference. Key Features *
Comprehensive reviews that, taken together, provide up-to-

date coverage of a rapidly moving field * Features new and unpublished information * Integrates research in diverse organisms to present an overview of common threads in mechanisms of meiosis * Includes thoughtful consideration of areas for future investigation This inaugural handbook documents the distinctive research field that utilizes history and philosophy in investigation of theoretical, curricular and pedagogical issues in the teaching of science and mathematics. It is contributed to by 130 researchers from 30 countries; it provides a logically

structured, fully referenced guide to the ways in which science and mathematics education is, informed by the history and philosophy of these disciplines, as well as by the philosophy of education more generally. The first handbook to cover the field, it lays down a much-needed marker of progress to date and provides a platform for informed and coherent future analysis and research of the subject. The publication comes at a time of heightened worldwide concern over the standard of science and mathematics education, attended by fierce debate over how best to reform curricula and enliven student engagement in the

subjects. There is a growing recognition among educators and policy makers that the learning of science must dovetail with learning about science; this handbook is uniquely positioned as a locus for the discussion. The handbook features sections on pedagogical, theoretical, national, and biographical research, setting the literature of each tradition in its historical context. It reminds readers at a crucial juncture that there has been a long and rich tradition of historical and philosophical engagements with science and mathematics teaching, and that lessons can be learnt from these engagements for the resolution

***of current theoretical, curricular and pedagogical questions that face teachers and administrators. Science educators will be grateful for this unique, encyclopaedic handbook, Gerald Holton, Physics Department, Harvard University This handbook gathers the fruits of over thirty years' research by a growing international and cosmopolitan community Fabio Bevilacqua, Physics Department, University of Pavia
Plant Cell Division
College Biology I
Team Teaching Science
The Art of Science Writing
Modern Biology***

***Biology Today and Tomorrow
with Physiology***

This volume aims to present a large panel of techniques for the study of Plant Cell Division. Plant Cell Division: Methods and Protocols captures basic experimental protocols that are commonly used to study plant cell division processes, as well as more innovative procedures. Chapters are split into five parts covering several different aspect of plant cell division such as, cell cultures for cell division studies, cell cycle progression and mitosis, imaging plant cell division, cell division and

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morphogenesis, and cytokinesis. Written for the Methods in Molecular Biology series, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and practical, Plant Cell Division: Methods and Protocols is a valuable tool for the study of plant cell division at both the cellular and molecular levels, and in the context of plant development. Engaging science writing that bravely approaches a

new frontier in medical science and offers a whole new way of looking at the deep kinship between animals and human beings.

Zoobiquity: a species-spanning approach to medicine bringing doctors and veterinarians together to improve the health of all species and their habitats. In the tradition of Temple Grandin, Oliver Sacks, and Neil Shubin, this is a remarkable narrative science book arguing that animal and human commonality can be used to diagnose, treat, and ultimately heal human patients. Through case studies of various species--human and animal

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kind alike--the authors reveal that a cross-species approach to medicine makes us not only better able to treat psychological and medical conditions but helps us understand our deep connection to other species with whom we share much more than just a planet. This revelatory book reaches across many disciplines--evolution, anthropology, sociology, biology, cutting-edge medicine and zoology--providing fascinating insights into the connection between animals and humans and what animals can teach us about the human body and mind.

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This laboratory manual is designed for an introductory majors 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 a second 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

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