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Biology

Exploring the Diversity of Life

Biology

Exploring the Diversity of Life

Biology: Exploring the Diversity of Life is uniquely designed for today's Canadian biology student. The intention of this introductory biology text is to capture students' imaginations and evoke a sense of curiosity about the vast world of biology. To facilitate immediately immersing students in biology, the text puts the review of chemistry and biochemistry in a distinct section called the Purple Pages, to be easily referenced when needed. The authors have taken great care to encourage critical thinking and learning with engaging visuals and by integrating the material across the book's chapters. With a focus on the Canadian biology student, the text approaches the material with a readable style that instills a sense of wonder by using examples from across the spectrum of biodiversity, showcasing Canadian research and innovation, and highlighting an array of career options that stem from biology. The text engages students in the science and future of biological science with effective pedagogy, streamlined content, a comprehensive MindTap, and a focus on research and experimentation that creates a complete biology learning solution.

Biology

Exploring the Diversity of Life

Biology: Exploring the Diversity of Life covers all the core concepts professors need their students to master before going on to upper level courses in a concise and accessible fashion. It also gives the historical precedent for all that we know now, as well as providing information on current research and modern molecular tools that have allowed us to ask and answer questions we never thought possible 10 years ago. The final piece of the puzzle and also the most unique feature is that, through the "Unanswered Questions" box, the text gives students a perspective on what researchers are working on for the future and what the impact will be to the world when these discoveries are made. Biology: Exploring the Diversity of Life goes beyond what normal Biology textbooks have done. Not only has it been designed with the Canadian student in mind but it has been built with the help of Canadian students. With new features such as "Molecule Behind Biology", "People Behind Biology" and "Life on the Edge", Canadian students will enjoy learning Biology and instructors will enjoy teaching it.

Study Guide for Use with Biology

Exploring the Diversity of Life

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.

Biology: The Unity and Diversity of Life

Cengage Learning By using an issues-oriented approach, the new edition of this respected text grabs student interest with real-life issues that hit home. This text includes new coverage and pedagogy that encourages students to think critically about hot-button issues and includes outstanding new features that take students beyond memorization and encourage them to ask questions in new ways as they learn to interpret data. Show students how biology matters Biology's connections to real life are reflected in every chapter of this new edition, beginning with opening Impacts, Issues essays a brief case study on a biology-related issue or research finding and is revisited throughout the chapter, reminding students of the real-world significance of basic concepts. Additional, online exercises promote critical thinking about issues students will face as consumers, parents, and citizens. Link concepts from chapter to chapter Links to Earlier Concepts appear near the Key Concepts, to help students remember what they've learned in earlier chapters and apply it to the new material to come. At the beginning of each section, students are reminded of the earlier link that is most appropriate for their current. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Biology

Exploring Life

The Diversity of Life

Harvard University Press An account of how the living world became diverse and how humans are destroying that diversity traces the processes that create new species and identifies the events that have disrupted evolution over the past six hundred million years.

GENERAL BIOLOGY I

Molecules, Cells and Genes

Dog Ear Publishing GENERAL BIOLOGY: Investigating Life is an introductory level college biology textbook that provides students with an accessible and engaging look at the fundamentals of biology. Written for a two-term, undergraduate course of mixed majors and non-majors, this reader-friendly text is concept driven vs. terminology driven. That is, the text is based on the underlying concepts and principles of biology rather than strict memorization of terminology. Written in a student-centered, conversational style, this educational research-based textbook uniquely connects students and our society to living things from various perspectives—economic, ecologic, medical, and cultural, exploring how the biological world and human realm are intimately intertwined. End-of-chapter questions challenge students to think critically and creatively while incorporating science process skills and biological principles.

Exploring Biology in the Laboratory: Core Concepts

Morton Publishing Company 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.

Southern Wonder

Alabama's Surprising Biodiversity

University of Alabama Press "Published in cooperation with The Nature Conservancy."

Life

The Science of Biology

Macmillan Authoritative, thorough, and engaging, *Life: The Science of Biology* achieves an optimal balance of scholarship and teachability, never losing sight of either the science or the student. The first introductory text to present biological concepts through the research that revealed them, *Life* covers the full range of topics with an integrated experimental focus that flows naturally from the narrative. This approach helps to bring the drama of classic and cutting-edge research to the classroom - but always in the context of reinforcing core ideas and the innovative scientific thinking behind them. Students will experience biology not just as a litany of facts or a highlight reel of experiments, but as a rich, coherent discipline.

Introduction to Insect Biology and Diversity

Oxford University Press, USA Extensively revised and reorganized, the second edition of *Introduction to Insect Biology and Diversity* serves as an ideal text for courses in general entomology with laboratory sections. Written for students who have completed an introductory course in biology, it provides an in-depth treatment of both the biology of insects and their classification, including keys for identification for over four hundred families. The common insects of North America are discussed as well as species found elsewhere in the world. Parts I and II provide reading material for lectures: Part I: *Insects as Organisms*, covers morphology, physiology, and behavior, including social behavior. Part II: *Insect Ecology*, begins with population biology and includes chapters on insects in relation to their environments and pest management. Part III, *Insect Diversity*, provides source material for the laboratory. The classification of insects, their evolution, and fossil record are discussed first, followed by coverage of each order in terms of general biology and ecology, keys for identification of families, and, in some chapters, discussion of the biologies of families. All insect orders and over four hundred families of insects are treated. This second edition features new chapters on population biology, insects and microbes, pest management, and methods for making an insect collection. It is illustrated with new line drawings by Barbara Boole Daly and many new photographs, including 48 in color, by Edward S. Ross. A unique feature in a text of this kind, these color photographs allow students to witness a variety of life forms and habits that they normally would not have the opportunity to observe in nature.

The Story of Life

Great Discoveries in Biology

W. W. Norton Biology's great discoveries and the people who make them

Essentials of Glycobiology

CSHL Press Sugar chains (glycans) are often attached to proteins and lipids and have multiple roles in the organization and function of all organisms. "Essentials of Glycobiology" describes their biogenesis and function and offers a useful gateway to the understanding of glycans.

Biology for AP ® Courses

Biology for AP® courses covers the scope 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.

The Diversity of Fishes

Biology, Evolution, and Ecology

John Wiley & Sons The second edition of *The Diversity of Fishes* represents a major revision of the world's most widely adopted ichthyology textbook. Expanded and updated, the second edition is illustrated throughout with striking color photographs depicting the spectacular evolutionary adaptations of the most ecologically and taxonomically diverse vertebrate group. The text incorporates the latest advances in the biology of fishes, covering taxonomy, anatomy, physiology, biogeography, ecology, and behavior. A new chapter on genetics and molecular ecology of fishes has been added, and conservation is emphasized throughout. Hundreds of new and redrawn illustrations augment readable text, and every chapter has been revised to reflect the discoveries and greater understanding achieved during the past decade. Written by a team of internationally-recognized authorities, the first edition of *The Diversity of Fishes* was received with enthusiasm and praise, and incorporated into ichthyology and fish biology classes around the globe, at both undergraduate and postgraduate levels. The second edition is a substantial update of an already classic reference and text. Companion resources site This book is accompanied by a resources site: www.wiley.com/go/helfman The site is being constantly updated by the author team and provides: · Related videos selected by the authors · Updates to the book since publication · Instructor resources · A chance to send in feedback

Biology 2e

Chemistry of Life

Benjamin-Cummings Publishing Company

Molecular Biology of the Cell

Loose-leaf Version for Biology How Life Works

Macmillan Higher Education **BIOLOGY: HOW LIFE WORKS** has been a revolutionary force for both instructors and students in the majors biology course. It was the first truly comprehensive set of integrated tools for introductory biology, seamlessly incorporating powerful text, media, and assessment to create the best pedagogical experience for students. **THE VISUAL PROGRAM** The already impressive visual program has been greatly improved and expanded. The powerful Visual Synthesis tools have been reimagined, allowing for more flexibility for both students and instructors. A new Tour Mode allows for learning objective-driven tours of the material and deep linking from the eText allow the student to jump straight from the text into a rich visual representation of the content. Instructors can also create customized tours to use for engaging in-class presentations. And finally, new animations have been added to the library, including a new 3D animation to support the animal physiology content. **A FOCUS ON SCIENTIFIC SKILLS** The third edition does even more to teach students the skills they need to think like a scientist, along with the content they need to move beyond the introductory course. New Skills Primers are self-paced tutorials that guide students to learn, practice, and use skills like data visualization, experimental design, working with numbers, and more. New How Do We Know? activities accompany the feature in the text and teach students to understand scientific inquiry. **THE HUB** The best teaching resources in the world aren't of use if instructors can't find them. The HUB provides a one-stop destination for valuable teaching and learning resources, including all of our well-vetted in-class activities. **IMPROVED ORGANIZATION OF TOPICS** We implemented several organizational changes based on extensive user feedback with the goal of creating an improved narrative for students and a more flexible teaching framework for instructors. A new chapter on Animal Form, Function, and Evolutionary History leads off the animal anatomy and physiology chapters to provide a whole-body view of structure and function and to provide better context for the more specific systems in following chapters. The ecology coverage has been enriched and reorganized for a more seamless flow. A new chapter on Ecosystem Ecology combines ecosystem concepts formerly housed in separate chapters to present a more cohesive view of the flow of matter and energy in ecosystems. All of these changes and improvements represent the next step in the life of *Biology: How Life Works*. We think we have created the best learning resource for introductory biology students, and we think instructors will find joy in the improvements they can make in their classes with these materials.

Biology Workbook For Dummies

John Wiley & Sons From genetics to ecology — the easy way to score higher in biology Are you a student baffled by biology? You're not alone. With the help of *Biology Workbook For Dummies* you'll quickly and painlessly get a grip on complex biology concepts and unlock the mysteries of this fascinating and ever-evolving field of study. Whether used as a complement to *Biology For Dummies* or on its own, *Biology Workbook For Dummies* aids you in grasping the fundamental aspects of Biology. In plain English, it helps you understand the concepts you'll come across in your biology class, such as physiology, ecology, evolution, genetics, cell biology, and more. Throughout the book, you get plenty of practice exercises to reinforce learning and help you on your goal of scoring higher in biology. Grasp the fundamental concepts of biology Step-by-step answer sets clearly identify where you went wrong (or right) with a problem Hundreds of study questions and exercises give you the skills and confidence to ace your biology course If you're intimidated by biology, utilize the friendly, hands-on information and activities in *Biology Workbook For Dummies* to build your skills in and out of the science lab.

Opportunities in Biology

National Academies Biology has entered an era in which interdisciplinary cooperation is at an all-time high, practical applications follow basic discoveries more quickly than ever before, and new technologies--recombinant DNA, scanning tunneling microscopes, and more--are revolutionizing the way science is conducted. The potential for scientific breakthroughs with significant implications for society has never been greater. *Opportunities in Biology* reports on the state of the new biology, taking a detailed look at the disciplines of biology; examining the advances made in medicine, agriculture, and other fields; and pointing out promising research opportunities. Authored by an expert panel representing a variety of viewpoints, this volume also offers recommendations on how to meet the infrastructure needs--for funding, effective information systems, and other support--of future biology research. Exploring what has been accomplished and what is on the horizon, *Opportunities in Biology* is an indispensable resource for students, teachers, and researchers in all subdisciplines of biology as well as for research administrators and those in funding agencies.

BIOLOGY: EXPLORING THE DIVERSITY OF LIFE VOLUME 2,

3rd ed. (Canadian ed.)

Nelson Education

Exploring the Way Life Works

The Science of Biology

Jones & Bartlett Learning The perfect answer for any instructor seeking a more concise, meaningful, and flexible alternative to the standard introductory biology text.

Communities in Action

Pathways to Health Equity

National Academies Press In the United States, some populations suffer from far greater disparities in health than others. Those disparities are caused not only by fundamental differences in health status across segments of the population, but also because of inequities in factors that impact health status, so-called determinants of health. Only part of an individual's health status depends on his or her behavior and choice; community-wide problems like poverty, unemployment, poor education, inadequate housing, poor public transportation, interpersonal violence, and decaying neighborhoods also contribute to health inequities, as well as the historic and ongoing interplay of structures, policies, and norms that shape lives. When these factors are not optimal in a community, it does not mean they are intractable: such inequities can be mitigated by social policies that can shape health in powerful ways. *Communities in Action: Pathways to Health Equity* seeks to delineate the causes of and the solutions to health inequities in the United States. This report focuses on what communities can do to promote health equity, what actions are needed by the many and varied stakeholders that are part of communities or support them, as well as the root causes and structural barriers that need to be overcome.

Prokaryotic Diversity

Mechanisms and Significance

Cambridge University Press The true extent of prokaryote diversity, encompassing the spectrum of variability among bacteria, remains unknown. Current research efforts focus on understanding why prokaryote diversification occurs, its underlying mechanisms, and its likely impact. The dynamic nature of the prokaryotic world, and continuing advances in the technological tools available make this an important area and hence this book will appeal to a wide variety of microbiologists. Its coverage ranges from studies of prokaryotes in specialized environmental niches to broad examinations of prokaryote evolution and diversity, and the mechanisms underlying them. Topics include: bacteria of the gastrointestinal tract, unculturable organisms in the mouth and in the soil, organisms from extreme environments, the diversity of archaea and their phages, comparative genomics and the emergence of pathogens, the spread of genomic islands between clinical and environmental organisms, minimal genomes needed for life, horizontal gene transfer, phenotypic innovation, and patterns and extent of biodiversity.

Conservation Biology for All

OUP Oxford Conservation Biology for All provides cutting-edge but basic conservation science to a global readership. A series of authoritative chapters have been written by the top names in conservation biology with the principal aim of disseminating cutting-edge conservation knowledge as widely as possible. Important topics such as balancing conservation and human needs, climate change, conservation planning, designing and analyzing conservation research, ecosystem services, endangered species management, extinctions, fire, habitat loss, and invasive species are covered. Numerous textboxes describing additional relevant material or case studies are also included. The global biodiversity crisis is now unstoppable; what can be saved in the developing world will require an educated constituency in both the developing and developed world. Habitat loss is particularly acute in developing countries, which is of special concern because it tends to be these locations where the greatest species diversity and richest centres of endemism are to be found. Sadly, developing world conservation scientists have found it difficult to access an authoritative textbook, which is particularly ironic since it is these countries where the potential benefits of knowledge application are greatest. There is now an urgent need to educate the next generation of scientists in developing countries, so that they are in a better position to protect their natural resources.

Basic Concepts in Biology

Brooks/Cole Publishing Company BASIC CONCEPTS IN BIOLOGY supplies a 650 page, introductory issues-oriented approach with enormous instructional power. This title has content identical to Starr's longer BIOLOGY, CONCEPTS AND APPLICATIONS, Sixth Edition, except for the omission of plant and animal physiology. The "Impacts, Issues" and "How Would You Vote?" features new to this edition make biology come alive. An "Impacts, Issues" case study opens each chapter focusing on a biology-related societal issue. Short films that expand on the issue are on the free Student CD. Each chapter's "How Would You Vote?" asks students to consider biology-related

news, apply knowledge, cast a vote on the web and see voting tallies. The access codes that accompany all new copies provide online access to 1) BiologyNow, a learning tool that helps students assess their unique study needs through pretests, post-test and personalized learning plans; 2) InfoTrac, a library of full text articles; 3) vMentor, a live tutoring service and 4) "How Do I Prepare," a feature that allows students to review basic math, chemistry, and other skills that will help them more easily master introductory biology. And now with an MP3 download of this title, you don't have to lose prep time during a long commute any MP3 player lets you or your students listen and review the text at the gym, in the library, at the office anywhere! Starr is the most successful author in non-majors biology because of her clear and engaging writing, trend-setting art, and unparalleled student and instructor media.

How People Learn II

Learners, Contexts, and Cultures

National Academies Press There are many reasons to be curious about the way people learn, and the past several decades have seen an explosion of research that has important implications for individual learning, schooling, workforce training, and policy. In 2000, *How People Learn: Brain, Mind, Experience, and School: Expanded Edition* was published and its influence has been wide and deep. The report summarized insights on the nature of learning in school-aged children; described principles for the design of effective learning environments; and provided examples of how that could be implemented in the classroom. Since then, researchers have continued to investigate the nature of learning and have generated new findings related to the neurological processes involved in learning, individual and cultural variability related to learning, and educational technologies. In addition to expanding scientific understanding of the mechanisms of learning and how the brain adapts throughout the lifespan, there have been important discoveries about influences on learning, particularly sociocultural factors and the structure of learning environments. *How People Learn II: Learners, Contexts, and Cultures* provides a much-needed update incorporating insights gained from this research over the past decade. The book expands on the foundation laid out in the 2000 report and takes an in-depth look at the constellation of influences that affect individual learning. *How People Learn II* will become an indispensable resource to understand learning throughout the lifespan for educators of students and adults.

Landscapes and Labscapes

Exploring the Lab-Field Border in Biology

University of Chicago Press What is it like to do field biology in a world that exalts experiments and laboratories? How have field biologists assimilated laboratory values and practices, and crafted an exact, quantitative science without losing their naturalist souls? In *Landscapes and Labscapes*, Robert E. Kohler explores the people, places, and practices of field biology in the United States from the 1890s to the 1950s. He takes readers into the fields and forests where field biologists learned to count and measure nature and to read the imperfect records of "nature's experiments." He shows how field researchers use nature's particularities to develop "practices of place" that achieve in nature what laboratory researchers can only do with simplified experiments. Using historical frontiers as models, Kohler shows how biologists created vigorous new border sciences of ecology and evolutionary biology.

Human Diversity

The Biology of Gender, Race, and Class

Hachette UK All people are equal but, as *Human Diversity* explores, all groups of people are not the same -- a fascinating investigation of the genetics and neuroscience of human differences. The thesis of *Human Diversity* is that advances in genetics and neuroscience are overthrowing an intellectual orthodoxy that has ruled the social sciences for decades. The core of the orthodoxy consists of three dogmas: - Gender is a social construct. - Race is a social construct. - Class is a function of privilege. The problem is that all three dogmas are half-truths. They have stifled progress in understanding the rich texture that biology adds to our understanding of the social, political, and economic worlds we live in. It is not a story to be feared. "There are no monsters in the closet," Murray writes, "no dread doors we must fear opening." But it is a story that needs telling. *Human Diversity* does so without sensationalism, drawing on the most authoritative scientific findings, celebrating both our many differences and our common humanity.

The State of the World's Biodiversity for Food and Agriculture

FAO COMMISSION ON GENETIC RESOURCES FOR FOOD AND AGRICULTURE ASSESSMENTS • 2019

Food & Agriculture Org. The *State of the World's Biodiversity for Food and Agriculture* presents the first global assessment of biodiversity for food and agriculture worldwide. Biodiversity for food and agriculture is the diversity of plants, animals and micro-organisms at genetic, species and ecosystem levels, present in and around crop, livestock, forest and aquatic production systems. It is

essential to the structure, functions and processes of these systems, to livelihoods and food security, and to the supply of a wide range of ecosystem services. It has been managed or influenced by farmers, livestock keepers, forest dwellers, fish farmers and fisherfolk for hundreds of generations. Prepared through a participatory, country-driven process, the report draws on information from 91 country reports to provide a description of the roles and importance of biodiversity for food and agriculture, the drivers of change affecting it and its current status and trends. It describes the state of efforts to promote the sustainable use and conservation of biodiversity for food and agriculture, including through the development of supporting policies, legal frameworks, institutions and capacities. It concludes with a discussion of needs and challenges in the future management of biodiversity for food and agriculture. The report complements other global assessments prepared under the auspices of the Commission on Genetic Resources for Food and Agriculture, which have focused on the state of genetic resources within particular sectors of food and agriculture.

Comprehensive Natural Products III

Elsevier Comprehensive Natural Products III, Third Edition, updates and complements the previous two editions, including recent advances in cofactor chemistry, structural diversity of natural products and secondary metabolites, enzymes and enzyme mechanisms and new bioinformatics tools. Natural products research is a dynamic discipline at the intersection of chemistry and biology concerned with isolation, identification, structure elucidation, and chemical characteristics of naturally occurring compounds such as pheromones, carbohydrates, nucleic acids and enzymes. This book reviews the accumulated efforts of chemical and biological research to understand living organisms and their distinctive effects on health and medicine and to stimulate new ideas among the established natural products community. Provides readers with an in-depth review of current natural products research and a critical insight into the future direction of the field Bridges the gap in knowledge by covering developments in the field since the second edition published in 2010 Split into 7 sections on key topics to allow students, researchers and professionals to find relevant information quickly and easily Ensures that the knowledge within is easily understood by and applicable to a large audience

The Fungal Kingdom

John Wiley & Sons Fungi research and knowledge grew rapidly following recent advances in genetics and genomics. This book synthesizes new knowledge with existing information to stimulate new scientific questions and propel fungal scientists on to the next stages of research. This book is a comprehensive guide on fungi, environmental sensing, genetics, genomics, interactions with microbes, plants, insects, and humans, technological applications, and natural product development.

Why Study Biology by the Sea?

"Since the middle of the 19th century, biologists have migrated to the seashore to study marine organisms as a way of understanding life. By the turn of the 20th century, such work was being done inside permanent seaside field stations. The Stazione Zoologica, in Naples, Italy (from 1874), and the Marine Biological Laboratory, in Woods Hole, Massachusetts (from 1888), attracted leaders in many biological fields, and helped establish biology as a modern science. *Why Study Biology by the Sea?* tells the story of these unique scientific institutions while attempting to answer the contemporary question, "Why study biology by the sea?" The volume examines the origins and value of these places via perspectives that range from cell biology to philosophy of science"--

Silent Spring

Houghton Mifflin Harcourt Discusses the reckless annihilation of fish and birds by the use of pesticides and warns of the possible genetic effects on humans.

Teaching About Evolution and the Nature of Science

National Academies Press Today many school students are shielded from one of the most important concepts in modern science: evolution. In engaging and conversational style, *Teaching About Evolution and the Nature of Science* provides a well-structured framework for understanding and teaching evolution. Written for teachers, parents, and community officials as well as scientists and educators, this book describes how evolution reveals both the great diversity and similarity among the Earth's organisms; it explores how scientists approach the question of evolution; and it illustrates the nature of science as a way of knowing about the natural world. In addition, the book provides answers to frequently asked questions to help readers understand many of the issues and misconceptions about evolution. The book includes sample activities for teaching about evolution and the nature of science. For example, the book includes activities that investigate fossil footprints and population growth that teachers of science can use to introduce principles of evolution. Background information, materials, and step-by-step presentations are provided for each activity. In addition, this volume: Presents the evidence for evolution, including how evolution can be observed today. Explains the nature of science through a variety of examples. Describes how science differs from other human endeavors and why evolution is one of the best avenues for helping students understand this distinction. Answers frequently asked questions about evolution. *Teaching About Evolution and the Nature of Science* builds on the 1996 National Science Education Standards released by the National Research Council--and offers detailed guidance on how to evaluate and choose instructional materials that support the standards. Comprehensive and practical, this book brings one of today's educational challenges into focus in a balanced and reasoned discussion. It will be of special interest to teachers of science, school administrators, and interested members of the community.

Parenting Matters

Supporting Parents of Children Ages 0-8

National Academies Press Decades of research have demonstrated that the parent-child dyad and the environment of the family—which includes all primary caregivers—are at the foundation of children's well-being and healthy development. From birth, children are learning and rely on parents and the other caregivers in their lives to protect and care for them. The impact of parents may never be greater than during the earliest years of life, when a child's brain is rapidly developing and when nearly all of her or his experiences are created and shaped by parents and the family environment. Parents help children build and refine their knowledge and skills, charting a trajectory for their health and well-being during childhood and beyond. The experience of parenting also impacts parents themselves. For instance, parenting can enrich and give focus to parents' lives; generate stress or calm; and create any number of emotions, including feelings of happiness, sadness, fulfillment, and anger. Parenting of young children today takes place in the context of significant ongoing developments. These include: a rapidly growing body of science on early childhood, increases in funding for programs and services for families, changing demographics of the U.S. population, and greater diversity of family structure. Additionally, parenting is increasingly being shaped by technology and increased access to information about parenting. *Parenting Matters* identifies parenting knowledge, attitudes, and practices associated with positive developmental outcomes in children ages 0-8; universal/preventive and targeted strategies used in a variety of settings that have been effective with parents of young children and that support the identified knowledge, attitudes, and practices; and barriers to and facilitators for parents' use of practices that lead to healthy child outcomes as well as their participation in effective programs and services. This report makes recommendations directed at an array of stakeholders, for promoting the wide-scale adoption of effective programs and services for parents and on areas that warrant further research to inform policy and practice. It is meant to serve as a roadmap for the future of parenting policy, research, and practice in the United States.

30-Second Biology

The 50 Most Thought-Provoking Theories of Life, Each Explained in Half a Minute

The 50 most thought-provoking theories of life, each explained in half a minute. *30-Second Biology* tackles the vital science of life, dissecting the 50 most thought-provoking theories of our ecosystem and ourselves. At a time when discoveries in DNA allow us to feel more connected than ever to the natural world, this is the fastest route to an understanding of the tree of life. Whether you're dipping into the gene pool, unlocking cells, or conversing on biodiversity, this is all the knowledge you need to bring life to the dinner-party debate. An internationally bestselling series presents essential concepts in a mere 30 seconds, 300 words, and one image; The 50 most important ideas and innovations in biology dissected and explained clearly without the clutter; The fastest way to learn about cells, reproduction, animals, plants, evolution and ecosystems.