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This book is designed to

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introduce doctoral and graduate students to the process of conducting scientific research in the social sciences, business, education, public health, and related disciplines. It is a one-

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stop, comprehensive, and compact source for foundational concepts in behavioral research, and can serve as a stand-alone text or as a supplement to research readings in any doctoral

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***seminar or research methods
class. This book is currently
used as a research text at
universities on six continents
and will shortly be available in
nine different languages.***

John Dewey's Democracy and

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Education addresses the challenge of providing quality public education in a democratic society. In this classic work Dewey calls for the complete renewal of public education, arguing for the

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***fusion of vocational and
contemplative studies in
education and for the
necessity of universal
education for the
advancement of self and
society. First published in***

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1916, Democracy and Education is regarded as the seminal work on public education by one of the most important scholars of the century.

A pioneering proposal for a

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***pluralistic extension of
evolutionary theory, now
updated to reflect the most
recent research. This new
edition of the widely read
Evolution in Four Dimensions
has been revised to reflect the***

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spate of new discoveries in biology since the book was first published in 2005, offering corrections, an updated bibliography, and a substantial new chapter. Eva Jablonka and Marion Lamb's

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pioneering argument proposes that there is more to heredity than genes. They describe four “dimensions” in heredity—four inheritance systems that play a role in evolution: genetic, epigenetic

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(or non-DNA cellular transmission of traits), behavioral, and symbolic (transmission through language and other forms of symbolic communication). These systems, they argue,

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can all provide variations on which natural selection can act. Jablonka and Lamb present a richer, more complex view of evolution than that offered by the gene-based Modern Synthesis,

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arguing that induced and acquired changes also play a role. Their lucid and accessible text is accompanied by artist-physician Anna Zeligowski's lively drawings, which

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***humorously and effectively
illustrate the authors' points.
Each chapter ends with a
dialogue in which the authors
refine their arguments against
the vigorous skepticism of the
fictional "I.M." (for Ipcha***

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Mistabra—Aramaic for “the opposite conjecture”). The extensive new chapter, presented engagingly as a dialogue with I.M., updates the information on each of the four dimensions—with special

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***attention to the epigenetic,
where there has been an
explosion of new research.
Praise for the first edition
“With courage and verve, and
in a style accessible to general
readers, Jablonka and Lamb***

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***lay out some of the exciting
new pathways of Darwinian
evolution that have been
uncovered by contemporary
research.” —Evelyn Fox
Keller, MIT, author of Making
Sense of Life: Explaining***

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***Biological Development with
Models, Metaphors, and
Machines “In their beautifully
written and impressively
argued new book, Jablonka
and Lamb show that the
evidence from more than fifty***

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***years of molecular, behavioral
and linguistic studies forces
us to reevaluate our inherited
understanding of evolution.”***

***—Oren Harman, The New
Republic “It is not only an
enjoyable read, replete with***

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***ideas and facts of interest but
it does the most valuable thing
a book can do—it makes you
think and reexamine your
premises and long-held
conclusions.” —Adam Wilkins,
BioEssays***

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Democracy and Education
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Why God Won't Go Away

Chemistry and chemical engineering have changed significantly in the last decade. They have broadened their scope into biology, nanotechnology, materials

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science, computation, and advanced methods of process systems engineering and controlâ€"so much that the programs in most chemistry and chemical engineering departments now barely

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resemble the classical notion of chemistry. Beyond the Molecular Frontier brings together research, discovery, and invention across the entire spectrum of the chemical sciencesâ€”from fundamental,

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molecular-level chemistry to large-scale chemical processing technology. This reflects the way the field has evolved, the synergy at universities between research and education in chemistry and chemical

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engineering, and the way chemists and chemical engineers work together in industry. The astonishing developments in science and engineering during the 20th century have made it possible to

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dream of new goals that might previously have been considered unthinkable. This book identifies the key opportunities and challenges for the chemical sciences, from basic research to societal needs and from

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terrorism defense to environmental protection, and it looks at the ways in which chemists and chemical engineers can work together to contribute to an improved future. A textbook on mathematical

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modelling techniques with powerful applications to biology, combining theoretical exposition with exercises and examples. First released in the Spring of 1999, How People Learn has been expanded to show how the

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theories and insights from the original book can translate into actions and practice, now making a real connection between classroom activities and learning behavior. This edition includes far-reaching

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suggestions for research that could increase the impact that classroom teaching has on actual learning. Like the original edition, this book offers exciting new research about the mind and the brain that provides

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answers to a number of compelling questions. When do infants begin to learn? How do experts learn and how is this different from non-experts? What can teachers and schools do with curricula, classroom

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settings, and teaching methods--to help children learn most effectively? New evidence from many branches of science has significantly added to our understanding of what it means to know, from the neural

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processes that occur during learning to the influence of culture on what people see and absorb. How People Learn examines these findings and their implications for what we teach, how we teach it, and how

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we assess what our children learn. The book uses exemplary teaching to illustrate how approaches based on what we now know result in in-depth learning. This new knowledge calls into question concepts and

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practices firmly entrenched in our current education system. Topics include: How learning actually changes the physical structure of the brain. How existing knowledge affects what people notice and how they learn. What

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the thought processes of experts tell us about how to teach. The amazing learning potential of infants. The relationship of classroom learning and everyday settings of community and workplace. Learning needs and

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opportunities for teachers. A
realistic look at the role of
technology in education.

An Introduction to the Philosophy
of Education,

The Gene Book

Plant Cell Biology

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Teaching About Evolution and
the Nature of Science

Challenges for Chemistry and
Chemical Engineering

McGraw-Hill's 10 ACT Practice
Tests, Second Edition

Today many school students are

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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

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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

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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

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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

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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

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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

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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

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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

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discussion. It will be of special interest to teachers of science, school administrators, and interested members of the community.

One of the pathways by which the scientific community confirms the

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validity of a new scientific discovery is by repeating the research that produced it. When a scientific effort fails to independently confirm the computations or results of a previous study, some fear that it may be a symptom of a lack of rigor in

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science, while others argue that such an observed inconsistency can be an important precursor to new discovery. Concerns about reproducibility and replicability have been expressed in both scientific and popular media. As

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these concerns came to light, Congress requested that the National Academies of Sciences, Engineering, and Medicine conduct a study to assess the extent of issues related to reproducibility and replicability and to offer

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recommendations for improving rigor and transparency in scientific research. Reproducibility and Replicability in Science defines reproducibility and replicability and examines the factors that may lead to non-reproducibility and non-

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replicability in research. Unlike the typical expectation of reproducibility between two computations, expectations about replicability are more nuanced, and in some cases a lack of replicability can aid the process of scientific

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discovery. This report provides recommendations to researchers, academic institutions, journals, and funders on steps they can take to improve reproducibility and replicability in science.

Concepts of Biology is designed for

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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

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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

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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

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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

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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

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concepts.

The Travels of Marco Polo, the
Venetian
Inquiry and the National Science
Education Standards
Principles and Explorations:
Science Skills Worksheets with

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Answer Key

Evolutionary and Revolutionary
Technologies for Mining

Test Generator Assessment Item
Listing

Concepts of Biology

In its examination of

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biochemistry, this second edition of the text includes expositions of major research techniques through the Tools of Biochemistry, and a presentation of concepts through description of the experimental bases for those

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concepts.

A reprint of the 1976 Macmillan edition. This fictional outline of a modern utopia has been a center of controversy ever since its publication in 1948. Set in the United States, it pictures a society

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in which human problems are solved by a scientific technology of human conduct.

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Emphasizing the role of personal responsibility and choice in creating a meaningful life, the text explores a wide variety of key topics, including personal style of learning, the effects of childhood and adolescence experiences on

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current behavior and choices, meeting the challenges of adulthood and autonomy, and many other issues related to personal growth and development. Self-inventories, exercises, activities, and first-person accounts of difficult choices real people have

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made give students invaluable insight into their lives, beliefs, and attitudes in a personally empowering way. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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How does mathematics enable us to send pictures from space back to Earth? Where does the bell-shaped curve come from? Why do you need only 23 people in a room for a 50/50 chance of two of them sharing the same birthday? In Strange Curves, Counting Rabbits, and Other

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Mathematical Explorations, Keith Ball highlights how ideas, mostly from pure math, can answer these questions and many more. Drawing on areas of mathematics from probability theory, number theory, and geometry, he explores a wide range of concepts, some more light-

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hearted, others central to the development of the field and used daily by mathematicians, physicists, and engineers. Each of the book's ten chapters begins by outlining key concepts and goes on to discuss, with the minimum of technical detail, the principles that

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underlie them. Each includes puzzles and problems of varying difficulty. While the chapters are self-contained, they also reveal the links between seemingly unrelated topics. For example, the problem of how to design codes for satellite communication gives rise to the

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same idea of uncertainty as the problem of screening blood samples for disease. Accessible to anyone familiar with basic calculus, this book is a treasure trove of ideas that will entertain, amuse, and bemuse students, teachers, and math lovers of all ages.

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Humans, especially children, are naturally curious. Yet, people often balk at the thought of learning science--the "eyes glazed over" syndrome. Teachers may find teaching science a major challenge in an era when science ranges from the hardly imaginable quark to the

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distant, blazing quasar. Inquiry and the National Science Education Standards is the book that educators have been waiting for--a practical guide to teaching inquiry and teaching through inquiry, as recommended by the National Science Education Standards. This

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will be an important resource for educators who must help school boards, parents, and teachers understand "why we can't teach the way we used to." "Inquiry" refers to the diverse ways in which scientists study the natural world and in which students grasp science

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knowledge and the methods by which that knowledge is produced. This book explains and illustrates how inquiry helps students learn science content, master how to do science, and understand the nature of science. This book explores the dimensions of teaching and

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learning science as inquiry for K-12 students across a range of science topics. Detailed examples help clarify when teachers should use the inquiry-based approach and how much structure, guidance, and coaching they should provide. The book dispels myths that may have

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discouraged educators from the inquiry-based approach and illuminates the subtle interplay between concepts, processes, and science as it is experienced in the classroom. Inquiry and the National Science Education Standards shows how to bring the standards

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to life, with features such as classroom vignettes exploring different kinds of inquiries for elementary, middle, and high school and Frequently Asked Questions for teachers, responding to common concerns such as obtaining teaching supplies.

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Turning to assessment, the committee discusses why assessment is important, looks at existing schemes and formats, and addresses how to involve students in assessing their own learning achievements. In addition, this book discusses administrative

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assistance, communication with parents, appropriate teacher evaluation, and other avenues to promoting and supporting this new teaching paradigm.

**Strange Curves, Counting Rabbits,
& Other Mathematical Explorations
Evolution in Four Dimensions,**

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Microbiology

A Guide for Teaching and Learning

Brain, Mind, Experience, and

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How People Learn

*More than four decades have
passed since a human first set foot*

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on the Moon. Great strides have been made in our understanding of what is required to support an enduring human presence in space, as evidenced by progressively more advanced orbiting human outposts,

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*culminating in the current
International Space Station (ISS).
However, of the more than 500
humans who have so far ventured
into space, most have gone only as
far as near-Earth orbit, and none
have traveled beyond the orbit of*

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the Moon. Achieving humans' further progress into the solar system had proved far more difficult than imagined in the heady days of the Apollo missions, but the potential rewards remain substantial. During its more than

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50-year history, NASA's success in human space exploration has depended on the agency's ability to effectively address a wide range of biomedical, engineering, physical science, and related obstacles--an achievement made

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possible by NASA's strong and productive commitments to life and physical sciences research for human space exploration, and by its use of human space exploration infrastructures for scientific discovery. The Committee for the

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Decadal Survey of Biological and Physical Sciences acknowledges the many achievements of NASA, which are all the more remarkable given budgetary challenges and changing directions within the agency. In the past decade,

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however, a consequence of those challenges has been a life and physical sciences research program that was dramatically reduced in both scale and scope, with the result that the agency is poorly positioned to take full

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advantage of the scientific opportunities offered by the now fully equipped and staffed ISS laboratory, or to effectively pursue the scientific research needed to support the development of advanced human

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exploration capabilities. Although its review has left it deeply concerned about the current state of NASA's life and physical sciences research, the Committee for the Decadal Survey on Biological and Physical Sciences

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in Space is nevertheless convinced that a focused science and engineering program can achieve successes that will bring the space community, the U.S. public, and policymakers to an understanding that we are ready

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for the next significant phase of human space exploration. The goal of this report is to lay out steps and develop a forward-looking portfolio of research that will provide the basis for recapturing the excitement and

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*value of human
spaceflight--thereby enabling the
U.S. space program to deliver on
new exploration initiatives that
serve the nation, excite the public,
and place the United States again
at the forefront of space*

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*exploration for the global good.
Microbiology: Principles and
Explorations has been a best-
selling textbook for several
editions due to the author's
engaging writing style where her
passion for the subject shines*

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through the narrative. The text's student-friendly approach provides readers with an excellent introduction to the study of Microbiology. This text is appropriate for non-major and mixed major microbiology

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*courses, allied health, agriculture
and food sciences courses too.*

*"A dazzling journey across the
sciences and humanities in search
of deep laws to unite them." --The
Wall Street Journal One of our
greatest living scientists--and the*

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*winner of two Pulitzer Prizes for
On Human Nature and The
Ants--gives us a work of visionary
importance that may be the
crowning achievement of his
career. In Consilience (a word
that originally meant "jumping*

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together"), Edward O. Wilson renews the Enlightenment's search for a unified theory of knowledge in disciplines that range from physics to biology, the social sciences and the humanities. Using the natural

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sciences as his model, Wilson forges dramatic links between fields. He explores the chemistry of the mind and the genetic bases of culture. He postulates the biological principles underlying works of art from cave-drawings

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to Lolita. Presenting the latest findings in prose of wonderful clarity and oratorical eloquence, and synthesizing it into a dazzling whole, Consilience is science in the path-clearing traditions of Newton, Einstein, and Richard

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Feynman.

Walden Two

*Improving Advanced Study of
Mathematics and Science in U.S.
High Schools*

*Learning and Understanding
Biochemistry*

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*Genetic, Epigenetic, Behavioral,
and Symbolic Variation in the
History of Life*

*Recapturing a Future for Space
Exploration*

The Office of Industrial
Technologies (OIT) of the U. S.

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Department of Energy commissioned the National Research Council (NRC) to undertake a study on required technologies for the Mining Industries of the Future Program to complement information provided to

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the program by the National Mining Association. Subsequently, the National Institute for Occupational Safety and Health also became a sponsor of this study, and the Statement of Task was expanded to include health and safety. The

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overall objectives of this study are: (a) to review available information on the U.S. mining industry; (b) to identify critical research and development needs related to the exploration, mining, and processing of coal, minerals, and metals; and

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(c) to examine the federal contribution to research and development in mining processes. This book takes a fresh look at programs for advanced studies for high school students in the United States, with a particular focus on

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the Advanced Placement and the International Baccalaureate programs, and asks how advanced studies can be significantly improved in general. It also examines two of the core issues surrounding these programs: they

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can have a profound impact on other components of the education system and participation in the programs has become key to admission at selective institutions of higher education. By looking at what could enhance the quality of

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high school advanced study programs as well as what precedes and comes after these programs, this report provides teachers, parents, curriculum developers, administrators, college science and mathematics faculty, and the

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educational research community with a detailed assessment that can be used to guide change within advanced study programs.

Interactions between the fields of physics and biology reach back over a century, and some of the

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most significant developments in biology--from the discovery of DNA's structure to imaging of the human brain--have involved collaboration across this disciplinary boundary. For a new generation of physicists, the

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phenomena of life pose exciting challenges to physics itself, and biophysics has emerged as an important subfield of this discipline. Here, William Bialek provides the first graduate-level introduction to biophysics aimed at physics

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students. Bialek begins by exploring how photon counting in vision offers important lessons about the opportunities for quantitative, physics-style experiments on diverse biological phenomena. He draws from these

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lessons three general physical principles--the importance of noise, the need to understand the extraordinary performance of living systems without appealing to finely tuned parameters, and the critical role of the representation and flow

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of information in the business of life. Bialek then applies these principles to a broad range of phenomena, including the control of gene expression, perception and memory, protein folding, the mechanics of the inner ear, the

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dynamics of biochemical reactions, and pattern formation in developing embryos. Featuring numerous problems and exercises throughout, Biophysics emphasizes the unifying power of abstract physical principles to motivate new and

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novel experiments on biological systems. Covers a range of biological phenomena from the physicist's perspective Features 200 problems Draws on statistical mechanics, quantum mechanics, and related mathematical concepts

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Includes an annotated bibliography
and detailed appendixes

Instructor's manual (available only
to teachers)

Searching for Principles

Life on an Ocean Planet

Beyond the Molecular Frontier

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Explorations
Consilience
Teacher digital resource
package includes 2 CD-ROMs
and 1 user guide. Includes

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presentations, an image gallery
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student materials, Exam
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Why have we humans always longed to connect with something larger than ourselves? Why does consciousness inevitably involve us in a spiritual quest? Why, in short, won't God go away? Theologians,

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philosophers, and psychologists have debated this question through the ages, arriving at a range of contradictory and ultimately unprovable answers. But in this brilliant, groundbreaking new book,

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researchers Andrew Newberg and Eugene d'Aquili offer an explanation that is at once profoundly simple and scientifically precise: the religious impulse is rooted in the biology of the brain. Newberg and

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d'Aquili base this revolutionary conclusion on a long-term investigation of brain function and behavior as well as studies they conducted using high-tech imaging techniques to examine the brains of meditating

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Buddhists and Franciscan nuns at prayer. What they discovered was that intensely focused spiritual contemplation triggers an alteration in the activity of the brain that leads us to perceive transcendent religious

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experiences as solid and tangibly real. In other words, the sensation that Buddhists call "oneness with the universe" and the Franciscans attribute to the palpable presence of God is not a delusion or a manifestation of

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wishful thinking but rather a chain of neurological events that can be objectively observed, recorded, and actually photographed. The inescapable conclusion is that God is hard-wired into the human brain. In

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Why God Won't Go Away,
Newberg and d'Aquili document
their pioneering explorations in
the field of neurotheology, an
emerging discipline dedicated to
understanding the complex
relationship between spirituality

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and the brain. Along the way, they delve into such essential questions as whether humans are biologically compelled to make myths; what is the evolutionary connection between religious ecstasy and sexual

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orgasm; what do Near Death Experiences reveal about the nature of spiritual phenomena; and how does ritual create its own neurological environment. As their journey unfolds, Newberg and d'Aquili realize that

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a single, overarching question lies at the heart of their pursuit: Is religion merely a product of biology or has the human brain been mysteriously endowed with the unique capacity to reach and know God? Blending cutting-

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edge science with illuminating insights into the nature of consciousness and spirituality, Why God Won't Go Away bridges faith and reason, mysticism and empirical data. The neurological basis of how

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the brain identifies the "real" is nothing short of miraculous. This fascinating, eye-opening book dares to explore both the miracle and the biology of our enduring relationship with God.

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