

Trilobites Exploring Dinosaurs And Prehistoric Cr

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All Yesterdays John Conway 2013 All Yesterdays is a book about the way we see dinosaurs and other prehistoric animals. Lavishly illustrated with over sixty original artworks, All Yesterdays aims to challenge our notions of how prehistoric animals looked and behaved. As a critical exploration of palaeontological art, All Yesterdays asks questions about what is probable, what is possible, and what is commonly ignored. Written by palaeozoologist Darren Naish, and palaeontological artists John Conway and C.M. Kosemen, All Yesterdays is scientifically rigorous and artistically imaginative in its approach to fossils of the past - and those of the future.

Prehistoric Journey Kirk R. Johnson 2006-04-15 This is the story of the animals and plants that populated prehistoric Earth. It follows the journey of life from single-cell organisms to direct human ancestors.

Physical Geology Steven Earle 2019 "Physical Geology is a comprehensive introductory text on the physical aspects of geology, including rocks and minerals, plate tectonics, earthquakes, volcanoes, glaciation, groundwater, streams, coasts, mass wasting, climate change, planetary geology and much more. It has a strong emphasis on examples from western Canada, especially British Columbia, and also includes a chapter devoted to the geological history of western Canada. The book is a collaboration of faculty from Earth Science departments at Universities and Colleges across British Columbia and elsewhere"--BCcampus website.

[The Evolution of Paleontological Art](#) Renee M. Clary 2022-01-28 "This volume samples the history of art about fossils-and the visual conceptualization of their significance-starting with biblical and mythological depictions, extending to renditions of ancient life in long-vanished habitats, and on to a modern understanding that paleoart conveys lessons for the betterment of the human condition. Twenty-nine chapters illustrate how art about fossils has come to be a significant teaching tool not only about evolution of past life, but also about conservation of our planet for the benefit of future generations"--

Fossils for Kids Dan R. Lynch 2020-04-07 Start Your Fossil Collection with This Simple Guide! As incredible as it sounds, fossils are all around us, waiting to be discovered. Become a young paleontologist. Learn to find, identify, and even collect the petrified forms of ancient organisms. Dan R. Lynch, author of many field guides, presents an introduction to paleontology in this easy-to-understand guide. Begin by learning about the early Earth and the process of fossilization. That's followed by an identification guide to the most common and collectible fossils: crinoids, snail shells, shark teeth, and more. With full-color photographs, illustrations, and range maps, you'll always know what to look for and where to look. A "how to" section includes the details your family needs to begin a successful fossil hunt. As an added bonus, you'll get information on everything from rock shop fossils and rules of collecting to dinosaur fossils and more. Dan will even share tips on what to do with your fossil collection. This fun guide has everything you need. It's engaging and informative as it starts children on a path toward becoming successful rock, mineral, and fossil collectors!

The Origin of Birds Gerhard Heilmann 1926

Evolution Education Around the Globe Hasan Deniz 2018-06-21 This edited book provides a global view on evolution education. It describes the state of evolution education in different countries that are representative of geographical regions around the globe such as Eastern Europe, Western Europe, North Africa, South Africa, North America, South America, Middle East, Far East, South East Asia, Australia, and New Zealand. Studies in evolution education literature can be divided into three main categories: (a) understanding the interrelationships among cognitive, affective, epistemological, and religious factors that are related to peoples' views about evolution, (b) designing, implementing, evaluating evolution education curriculum that reflects contemporary evolution understanding, and (c) reducing antievolutionary attitudes. This volume systematically summarizes the evolution education literature across these three categories for each country or geographical region. The individual chapters thus include common elements that facilitate a cross-cultural meta-analysis. Written for a primarily academic audience, this book provides a much-needed common background for future evolution education research across the globe.

Energy, Complexity and Wealth Maximization Robert Ayres 2016-07-14 This book is about the mechanisms of wealth creation, or what we like to think of as evolutionary "progress." The massive circular flow of goods and services between producers and consumers is not a perpetual motion machine; it has been dependent for the past 150 years on energy inputs from a finite storage of fossil fuels. In this book, you will learn about the three key requirements for wealth creation, and how this process acts according to physical laws, and usually after some part of the natural wealth of the planet has been exploited in an episode of "creative destruction." Knowledge and natural capital, particularly energy, will interact to power the human wealth engine in the future as it has in the past. Will it sputter or continue along the path of evolutionary progress that we have come to expect? Can the new immaterial wealth of information and ideas, which makes up the so-called knowledge economy, replace depleted natural wealth? These questions have no simple answers, but this masterful book will help you to understand the grand challenge of our time. Praise for *Energy, Complexity and Wealth Maximization*: "... people who run the modern world (politicians, economists and lawyers) have a very poor grasp of how it really works because they do not understand the fundamentals of energy, exergy and entropy ... those decision-makers would greatly benefit from reading this book ..." - Vaclav Smil, Distinguished Professor Emeritus, University of Manitoba "... A grandiose design; impressive, worth reading and reflecting!" - Prof. Dr. Ernst Ulrich von Weizäcker, Founder of Wuppertal Institute; Co-President of the Club of Rome, Former Member of the German Bundestag, co-chair of the UN's Resource Panel "... The book is a must read for concerned citizens and decision makers across the globe." - RK Pachauri,

Founder and Executive Vice Chairman, The Energy and Resources Institute (TERI) and ex-chair, International Panel on Climate Change (IPCC)

Trilobites Lola M. Schaefer 2001-01-01 "How Trilobites that lived long ago became fossils."--T.p. verso.

Foundations of Paleoparasitology Adauto Araújo 2014-01-01 Unprecedented initiative in the world, the book compiles the available knowledge on the subject and presents the state-of-the-art in paleoparasitology - term coined about 30 years ago by Brazilian Fiocruz researcher Luiz Fernando Ferreira, pioneer in this science which is concerned with the study of parasites in the past. Multidisciplinary by essence, paleoparasitology gathers contributions from social scientists, biologists, historians, archaeologists, pharmacists, doctors and many other professionals, either in biomedical or humanities fields. With varied applications such as in evolutionary or migration studies, their results often depend on the association between laboratory findings and cultural remains. The book is divided into four parts - Parasites, Hosts, and Human Environment; Parasites Remains Preserved in Various Materials and Techniques in Microscopy and Molecular Diagnostics; Parasite Findings in Archeological Remains: a paleographic view; and Special Studies and Perspectives. Signed by authors from various countries such as Argentina, USA, Germany and France, the book has chapters devoted to the discoveries of paleoparasitology on all continents.

Curious about Fossils Kate Waters 2016 "[Are] you curious where ... fossils came from-- and who found them? Dig into this book to discover more about [the] exciting clues to the past!"--Page 4 of cover.

Darwin-Inspired Learning Carolyn J. Boulter 2015-01-19 Charles Darwin has been extensively analysed and written about as a scientist, Victorian, father and husband. However, this is the first book to present a carefully thought out pedagogical approach to learning that is centered on Darwin's life and scientific practice. The ways in which Darwin developed his scientific ideas, and their far reaching effects, continue to challenge and provoke contemporary teachers and learners, inspiring them to consider both how scientists work and how individual humans 'read nature'. Darwin-inspired learning, as proposed in this international collection of essays, is an enquiry-based pedagogy, that takes the professional practice of Charles Darwin as its source. Without seeking to idealise the man, Darwin-inspired learning places importance on: • active learning • hands-on enquiry • critical thinking • creativity • argumentation • interdisciplinarity. In an increasingly urbanised world, first-hand observations of living plants and animals are becoming rarer. Indeed, some commentators suggest that such encounters are under threat and children are living in a time of 'nature-deficit'. Darwin-inspired learning, with its focus on close observation and hands-on enquiry, seeks to re-engage children and young people with the living world through critical and creative thinking modeled on Darwin's life and science.

Science as a Way of Knowing John Alexander Moore 1999 This book makes Moore's wisdom available to students in a lively, richly illustrated account of the history and workings of life. Employing rhetoric strategies including case histories, hypotheses and deductions, and chronological narrative, it provides both a cultural history of biology and an introduction to the procedures and values of science.

In Pursuit of Early Mammals Zofia Kielan-Jaworowska 2013-07-12 "Mesozoic mammal fossils are the focus of this fascinating book, which reviews both the fossils themselves and the history of their discovery." —Choice In Pursuit of Early Mammals presents the history of the mammals that lived during the Mesozoic era, the time when dinosaurs ruled the Earth, and describes their origins, anatomy, systematics, paleobiology, and distribution. It also tells the story of the author, a world-renowned

specialist on these animals, and the other prominent paleontologists who have studied them. Zofia Kielan-Jaworowska was the first woman to lead large-scale paleontological expeditions, including eight to the Gobi Desert in Mongolia, which brought back important collections of dinosaur, early mammal, and other fossils. She shares the difficulties and pleasures encountered in finding rare fossils and describes the changing views on early mammals made possible by these discoveries. "A thorough review of the current state of early mammalian paleontology presented through the unique historical filter of someone who was at the forefront of the field for over half a century." —The Quarterly Review of Biology "Whether she's talking about how mammals evolved their distinctive ear bones, or how she built a cabin out of plywood during a particularly cold field season in the Gobi, you know that a remarkable, passionate person is telling a story of science and adventure in her own words." —Priscum "A fascinating window into the development of the field . . . The perspective of an individual at the center of these developments is captivating, informative, and has never before been published." —Gregory P. Wilson, University of Washington

Child of the World Susan Mayclin Stephenson 2013-02 Stephenson's volume is a wonderful resource for parents seeking thoughtful, sound advice on raising well-grounded children in a chaotic world. Presenting Montessori principles in clear and eloquent prose, Stephenson's legacy will be a tremendous service to generations of parents to come. -Angeline Lillard, PhD, Professor of Psychology, U. of Virginia, author of Montessori, The Science behind the Genius

Life on an Ocean Planet 2010 Teacher digital resource package includes 2 CD-ROMs and 1 user guide. Includes Teacher curriculum guide, PowerPoint chapter presentations, an image gallery of photographs, illustrations, customizable presentations and student materials, Exam Assessment Suite, PuzzleView for creating word puzzles, and LessonView for dynamic lesson planning. Laboratory and activity disc includes the manual in both student and teacher editions and a lab materials list.

Good Night, Trilobite

Dinosaurs and Other Extinct Saurians Richard Moody 2010 The discovery of dinosaurs and other large extinct saurians - a term under which the Victorians commonly lumped ichthyosaurs, plesiosaurs, pterosaurs and their kin - makes exciting reading and has caught the attention of palaeontologists, historians of science and the general public alike. The papers in this collection go beyond the familiar tales about famous fossil hunters and focus on relatively little-known episodes in the discovery and interpretation (from both a scientific and an artistic point of view) of dinosaurs and other inhabitants of the Mesozoic world. They cover a long time span, from the beginnings of modern scientific palaeontology in the 1700s to the present, and deal with many parts of the world, from the Yorkshire coast to Central India, from Bavaria to the Sahara. The characters in these stories include professional palaeontologists and geologists (some of them well-known, others quite obscure), explorers, amateur fossil collectors, and artists, linked together by their interest in Mesozoic creatures.

The Science of Human Evolution John H. Langdon 2016-10-25 This textbook provides a collection of case studies in paleoanthropology demonstrating the method and limitations of science. These cases introduce the reader to various problems and illustrate how they have been addressed historically. The various topics selected represent important corrections in the field, some critical breakthroughs, models of good reasoning and experimental design, and important ideas emerging from normal science.

Paleoradiology R.K. Chhem 2007-11-04 Diagnostic paleoradiology is the use of X-ray studies to detect

ancient diseases. The broad range of themes and imaging techniques in this volume reflects four decades of research undertaken by Don Brothwell in anthropology, human paleopathology, and zooarchaeology, combined with two decades of skeletal radiology experience during which Rethy Chhem read over 150,000 X-ray and CT studies. All the authors are leading experts in the fields of Radiology and Bioanthropology.

Guidebook of the Western United States Gerald Francis Loughlin 1933

New Mexico's Fossil Record 1997

Geologic Tours of Northern Utah Susan K. Morgan 1992

Fossils Frank H. T. Rhodes 2014-02-25 This eBook is best viewed on a color device. This introduction to the life of the past as revealed through fossils includes: -Descriptions of the typical plants and animals of major geological eras -Maps showing where fossils can be found -The history of the development of life on earth Full-color illustrations and concise information make this an invaluable and enjoyable guide to a fascinating subject.

Guidebook of the Western United States Willis Thomas Lee 1915

Walking with Dinosaurs Tim Haines 2000 Describes the earth's environment when dinosaurs flourished, the characteristics and habits of various species, and how changes in climate, landmasses, and vegetation led to the extinction of these massive reptiles.

Introduction to Paleobiology and the Fossil Record Michael Benton 2013-04-25 This book presents a comprehensive overview of the science of the history of life. Paleobiologists bring many analytical tools to bear in interpreting the fossil record and the book introduces the latest techniques, from multivariate investigations of biogeography and biostratigraphy to engineering analysis of dinosaur skulls, and from homeobox genes to cladistics. All the well-known fossil groups are included, including microfossils and invertebrates, but an important feature is the thorough coverage of plants, vertebrates and trace fossils together with discussion of the origins of both life and the metazoans. All key related subjects are introduced, such as systematics, ecology, evolution and development, stratigraphy and their roles in understanding where life came from and how it evolved and diversified. Unique features of the book are the numerous case studies from current research that lead students to the primary literature, analytical and mathematical explanations and tools, together with associated problem sets and practical schedules for instructors and students. "...any serious student of geology who does not pick this book off the shelf will be putting themselves at a huge disadvantage. The material may be complex, but the text is extremely accessible and well organized, and the book ought to be essential reading for palaeontologists at undergraduate, postgraduate and more advanced levels—both in Britain as well as in North America." Falcon-Lang, H., Proc. Geol. Assoc. 2010 "...this is an excellent introduction to palaeontology in general. It is well structured, accessibly written and pleasantly informative I would recommend this as a standard reference text to all my students without hesitation." David Norman Geol Mag 2010 Companion website This book includes a companion website at: <http://www.blackwellpublishing.com/paleobiology> The website includes: · An ongoing database of additional Practical's prepared by the authors · Figures from the text for downloading · Useful links for each chapter · Updates from the authors

Whirlaway: A Story of the Ages H. C. F. Morant 2021-11-09 "Whirlaway: A Story of the Ages" by H. C. F. Morant. Published by Good Press. Good Press publishes a wide range of titles that encompasses every genre. From well-known classics & literary fiction and non-fiction to forgotten—or yet undiscovered gems—of world literature, we issue the books that need to be read. Each Good Press edition has been meticulously edited and formatted to boost readability for all e-readers and devices. Our goal is to produce eBooks that are user-friendly and accessible to everyone in a high-quality digital format.

Fossils for Kids Ashley Hall 2022-06-21 Uncover the ancient past—a guide to fantastic fossils for kids ages 6 to 8 Set off on an amazing adventure into the prehistoric past when dinosaurs roamed the Earth. Fossils for Kids is filled with fascinating photographs and captivating facts that will teach junior fossil hunters how fossils form, where they are found, and tips on how to identify them. Start by learning more about some of your favorite dinosaurs—from Velociraptor to Tyrannosaurus rex—and where you can see the coolest dinosaur skeletons. Then discover the creatures that predate even the dinosaurs! You'll meet famous birds, like the Archaeopteryx, explore tiny invertebrate trilobites, and learn which ancient plant is the source of a delicious drink—root beer! Fossils for Kids includes: Beyond dinos—You won't just be learning about dinosaurs; this book covers mammals, other reptiles, and plant fossils. Greater knowledge—Use the fun sidebars to dive deeper into the fossil world and get more hands-on learning. Clear images—The colorful pictures allow you to easily identify fossils. It's time to unearth your scientific curiosity—there's no telling what you'll find using Fossils for Kids as your guide.

Geological Atlas of Africa Thomas Schlüter 2008-04-19 This atlas is intended primarily for anybody who is in some background for the arrangement of how the terrestrial basic geology of Africa. Its originality lies in the fact that the regional geology of each African country or territory is reviewed country-wise by maps for a fuller appreciation of why this work in Africa is and text, a view normally not presented in textbooks worth doing. Chapter 3 provides an executive summary of regional geology. It is my belief, that there has long been a need in universities and geological surveys, whole, i. e. in the context of no political boundaries. both in Africa and in the developed world, for summarizing geological maps and an accompanying basic alphabetical order each African country or territory text utilising the enormous fund of knowledge that is presented by a digitized geological overview map has been accumulated since the beginning of geological and an accompanying text on its respective stratigraphical research in Africa in the mid-19 century. I hope that, in part, the present atlas may satisfy this need. A short list of relevant references is also included.

My Book of Rocks and Minerals Devin Dennie 2017-07-11 A stunning visual reference book for little geologists who love to find fascinating rocks all around them. Identify colorful gemstones, sparkly crystals, the toughest rocks, and ancient fossils. Packed with fun facts, information, and extensive photos all about the rocks and minerals that make up the world around us. Interactive learning that engages young scholarly minds. Learn about 64 different types of rocks and minerals, how to tell the difference between them and where to find them. Dig into all the interesting geological materials from deep space to the deepest caves. You'll even discover glow in the dark minerals and living gems! Find out about the stuff our world is made of, and how rocks and minerals form over time. This captivating book introduces children to hands-on science with fun activities like starting your own impressive rock collection and how to stay safe on your rock finding missions. Written for kids aged 6 to 9 with bite-sized information and explanations. The easy-to-understand language gives them a rock-solid foundation

for science subjects. The geology book includes the phonetic pronunciation of the rock and mineral names so your little one will sound like a rock expert in no time. Rockin' It With Stones And Minerals - Stunning high-quality photographs. - Inspiring activities for little Earth scientists. - Over 64 types of rocks, their properties, and how they are formed.

Dinosaur Fossils Kathleen Connors 2012-08-01 Provides an introduction to fossils, exploring how they are formed and examines some dinosaur fossils.

Fossil-icious Allyson Kulavis 2012-07-10 Science with stuff: Real fossils bring pre-historica to life! The prehistoric period comes to life with this engaging picture book that includes fossils for young readers to examine and enjoy. The book itself is packed with fascinating facts, awesome illustrations, and memorable information about all things prehistoric—from dinosaurs to ancient plants to trilobites and major fossil discoveries. The fossils (visible through a die-cut and encased in a blister pack) are sure to thrill readers by giving them a hands-on connection to the book's content.

A Brief History of Earth Andrew H. Knoll 2021-04-27 Harvard's acclaimed geologist "charts Earth's history in accessible style" (AP) "A sublime chronicle of our planet." -Booklist, STARRED review How well do you know the ground beneath your feet? Odds are, where you're standing was once cooking under a roiling sea of lava, crushed by a towering sheet of ice, rocked by a nearby meteor strike, or perhaps choked by poison gases, drowned beneath ocean, perched atop a mountain range, or roamed by fearsome monsters. Probably most or even all of the above. The story of our home planet and the organisms spread across its surface is far more spectacular than any Hollywood blockbuster, filled with enough plot twists to rival a bestselling thriller. But only recently have we begun to piece together the whole mystery into a coherent narrative. Drawing on his decades of field research and up-to-the-minute understanding of the latest science, renowned geologist Andrew H. Knoll delivers a rigorous yet accessible biography of Earth, charting our home planet's epic 4.6 billion-year story. Placing twenty-first-century climate change in deep context, *A Brief History of Earth* is an indispensable look at where we've been and where we're going. Features original illustrations depicting Earth history and nearly 50 figures (maps, tables, photographs, graphs).

Evolution Education Re-considered Ute Harms 2019-07-16 This collection presents research-based interventions using existing knowledge to produce new pedagogies to teach evolution to learners more successfully, whether in schools or elsewhere. 'Success' here is measured as cognitive gains, as acceptance of evolution or an increased desire to continue to learn about it. Aside from introductory and concluding chapters by the editors, each chapter consists of a research-based intervention intended to enable evolution to be taught successfully; all these interventions have been researched and evaluated by the chapters' authors and the findings are presented along with discussions of the implications. The result is an important compendium of studies from around the world conducted both inside and outside of school. The volume is unique and provides an essential reference point and platform for future work for the foreseeable future.

The Rise and Fall of the Dinosaurs Steve Brusatte 2018-04-24 "THE ULTIMATE DINOSAUR BIOGRAPHY," hails *Scientific American*: A thrilling new history of the age of dinosaurs, from one of our finest young scientists. "A masterpiece of science writing." —*Washington Post* *A New York Times* Bestseller • Goodreads Choice Awards Winner • A BEST BOOK OF THE YEAR: *Smithsonian*, *Science Friday*, *The Times* (London), *Popular Mechanics*, *Science News* "This is scientific storytelling at its most visceral, striding with the beasts through their Triassic dawn, Jurassic dominance, and abrupt demise in the Cretaceous." —*Nature* The dinosaurs. Sixty-six million years ago, the Earth's most fearsome

creatures vanished. Today they remain one of our planet's great mysteries. Now *The Rise and Fall of the Dinosaurs* reveals their extraordinary, 200-million-year-long story as never before. In this captivating narrative (enlivened with more than seventy original illustrations and photographs), Steve Brusatte, a young American paleontologist who has emerged as one of the foremost stars of the field—naming fifteen new species and leading groundbreaking scientific studies and fieldwork—masterfully tells the complete, surprising, and new history of the dinosaurs, drawing on cutting-edge science to dramatically bring to life their lost world and illuminate their enigmatic origins, spectacular flourishing, astonishing diversity, cataclysmic extinction, and startling living legacy. Captivating and revelatory, *The Rise and Fall of the Dinosaurs* is a book for the ages. Brusatte traces the evolution of dinosaurs from their inauspicious start as small shadow dwellers—themselves the beneficiaries of a mass extinction caused by volcanic eruptions at the beginning of the Triassic period—into the dominant array of species every wide-eyed child memorizes today, *T. rex*, Triceratops, Brontosaurus, and more. This gifted scientist and writer re-creates the dinosaurs' peak during the Jurassic and Cretaceous, when thousands of species thrived, and winged and feathered dinosaurs, the prehistoric ancestors of modern birds, emerged. The story continues to the end of the Cretaceous period, when a giant asteroid or comet struck the planet and nearly every dinosaur species (but not all) died out, in the most extraordinary extinction event in earth's history, one full of lessons for today as we confront a "sixth extinction." Brusatte also recalls compelling stories from his globe-trotting expeditions during one of the most exciting eras in dinosaur research—which he calls "a new golden age of discovery"—and offers thrilling accounts of some of the remarkable findings he and his colleagues have made, including primitive human-sized tyrannosaurs; monstrous carnivores even larger than *T. rex*; and paradigm-shifting feathered raptors from China. An electrifying scientific history that unearths the dinosaurs' epic saga, *The Rise and Fall of the Dinosaurs* will be a definitive and treasured account for decades to come. Includes 75 images, world maps of the prehistoric earth, and a dinosaur family tree.

Missouri Landscapes Jon L. Hawker 1992 "In this magnificent book, Oliver Schuchard provides more than sixty-five exquisite black-and-white photographs spanning his thirty-eight years of photography. In addition, he explains the aesthetic rationale and techniques he used in order to produce these photographs, emphasizing the profound differences between, yet necessary interdependence of, craft and content. Although Schuchard believes that craft is important, he maintains that the idea behind the photograph and the emotional content of the image are equally vital and are, in fact, functions of one another. The author also shares components of his life experience that he believes helped shape his development as an artist and a teacher. He chose the splendid photographs included in this book from among nearly 5,000 negatives that had been exposed all over the world, from Missouri to Maine, California, Alaska, Colorado, France, Newfoundland, and Hawaii, among many other locations. Approximately 250 negatives survived the initial review, and each of those was printed before a final decision was made on which photographs were to be featured in the book. The final choices are representative of Schuchard's work and serve to substantiate his belief that craft, concept, and self must be fully understood and carefully melded for a good photograph to occur. This amazing work by award-winning photographer Oliver Schuchard will be treasured by professional and amateur photographers alike, as well as by anyone who simply enjoys superb photography."--Publishers website.

Teaching & Researching Big History: Exploring a New Scholarly Field Leonid Grinin 2014-06-30 According to the working definition of the International Big History Association, 'Big History seeks to understand the integrated history of the Cosmos, Earth, Life and Humanity, using the best available empirical evidence and scholarly methods.' In recent years Big History has been developing very fast indeed. Big History courses are taught in the schools and universities of several dozen countries. Hundreds of researchers are involved in studying and teaching Big History. The unique approach of Big

History, the interdisciplinary genre of history that deals with the grand narrative of 13.8 billion years, has opened up a vast amount of research agendas. Big History brings together constantly updated information from the scientific disciplines and merges it with the contemplative realms of philosophy and the humanities. It also provides a connection between the past, present, and future. Big History is a colossal and extremely heterogeneous field of research encompassing all the forms of existence and all timescales. Unsurprisingly, Big History may be presented in very different aspects and facets. In this volume the Big History is presented and discussed in three different ways. In its first part, Big History is explored in terms of methodology, theories of knowledge, as well as showcasing the personal approach of scholars to Big History. The second section comprises such articles that could clarify Big History's main trends and laws. The third part of this book explores the nature of teaching Big History as well as profiling a number of educational methods. This volume will be useful both for those who study interdisciplinary macroproblems and for specialists working in focused directions, as well as for those who are interested in evolutionary issues of Astrophysics, Geology, Biology, History, Anthropology, Linguistics and other areas of study. More than that, this edition will challenge and excite your vision of your own life and the exciting new discoveries going on around us!

Philosophy of Biology Alex Rosenberg 2007-12-19 Is life a purely physical process? What is human nature? Which of our traits is essential to us? In this volume, Daniel McShea and Alex Rosenberg – a biologist and a philosopher, respectively – join forces to create a new gateway to the philosophy of biology; making the major issues accessible and relevant to biologists and philosophers alike. Exploring concepts such as supervenience; the controversies about genocentrism and genetic determinism; and the debate about major transitions central to contemporary thinking about macroevolution; the authors lay out the broad terms in which we should assess the impact of biology on human capacities, social institutions and ethical values.

Extinct Animals: An Encyclopedia of Species that Have Disappeared during Human History Ross Piper 2009-03-20 Everyone is familiar with the dodo and the woolly mammoth, but how many people have heard of the scimitar cat and the Falkland Island fox? Extinct Animals portrays over 60 remarkable animals that have been lost forever during the relatively recent geological past. Each entry provides a concise discussion of the history of the animal—how and where it lived, and how it became extinct—as well as the scientific discovery and analysis of the creature. In addition, this work examines what led to extinction—from the role of cyclical swings in the Earth's climate to the spread of humans and their activities. Many scientists believe that we are in the middle of a mass extinction right now, caused by the human undermining of the earth's complex systems that support life. Understanding what caused the extinction of animals in the past may help us understand and prevent the extinction of species in the future. Extinct Animals examines the biology and history of some of the most interesting creatures that have ever lived, including: The American Terror Bird, which probably became extinct over 1 million years ago, who were massive predators, some of which were almost 10 feet tall; the Rocky Mountain Locust, last seen in 1902, formed the most immense animal aggregations ever known, with swarms estimated to include over 10 trillion insects; the Giant Ground Sloth, which was as large as an elephant; and the Neandertals, the first Europeans, which co-existed with prehistoric Homo sapiens. Extinct Animals includes illustrations—many created for the work—that help the reader visualize the extinct creature, and each entry concludes with a list of resources for those who wish to do further research.