Thinking About Biology

Thinking About BiologyThinking about BiologyA Short Guide to Writing about Biology50 Amazing Facts About Biology and Life on EarthYoung Children's Thinking about Biological WorldSmart Learning EnvironmentsThe Structure of Biological ScienceYoung Children's Developing Understanding of the Biological WorldThe Biological Foundations of Organizational BehaviorExemplary College Science TeachingPopular Science Monthly and World's AdvanceNatureNatureBiology PamphletsBiology of Plant-microbe InteractionsScience & EducationBiologyThe Popular Science MonthlyA concise biology for high schoolsBio Wilfred Stein Stephen Webster Jan A. Pechenik James Fulton Giyoo Hatano Maiga Chang Alexander Rosenberg Peter J. Marshall Stephen M. Colarelli Robert E. Yager Sir Norman Lockyer Sally A. Leong Thomas Henry Huxley Benjamin-Cummings Publishing Company Nelson S. Kline

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this book discusses the emergence of life the development of the individual and the study of the interaction between individuals and species it gives the student of theoretical biology some idea of the flavor of current research in the field

thinking about biology is intended for biology students who are interested in reflecting on the wider contexts of their studies this 2003 book encourages students to see that biology does not deliver certainties it discusses how biological ideas become established facts it uses history to examine how ideas change and to show that the biological facts that form the basis of a biology course are likely to change too each chapter is based on biological topics and examines them for their philosophical social and political implications topics covered include the role of natural selection in

evolution the history of ideas about fertilisation and inheritance vivisection and reductionism genetically modified foods xenotransplantation eugenics and genetic testing are some of the controversial subjects discussed thinking about biology should be essential reading for all college students already taking a biology course and for those contemplating such a course in the future

for almost four decades a short guide to writing about biology has been an indispensable resource noted biologist jan pechenik guides readers in acquiring the skills necessary to become critical thinkers and accomplished writers biology is a way of thinking about the world it is also about communicating information accurately logically clearly honestly and concisely the tenth edition outlines all aspects of writing well while also providing readers with procedures for developing strong research questions logically explaining findings and supporting claims with evidence all good writing involves both a struggle for understanding and a struggle to express that understanding the author delivers sage advice in an accessible entertaining style to help readers learn to write compelling papers and to enhance their understanding

50 amazing facts about biology and life on earth takes readers on an engaging journey through the wonders of the natural world presenting a fascinating collection of intriguing facts that illuminate the complexities of biological systems and the diverse forms of life inhabiting our planet from the incredible adaptability of extremophiles to the intricate relationships within ecosystems this book emphasizes the interconnectedness of life and highlights groundbreaking discoveries in fields like genetics evolution and ecology each fact is designed to spark curiosity and inspire a deeper appreciation for the intricacies of life making it a perfect read for anyone eager to learn more about the biological marvels that surround us

presents research on the topic of young children's naive biology examining such theoretical issues as processes conditions and mechanisms in conceptual development using the development of biological understanding as the target case

this book addresses main issues concerned with the future learning learning and academic analytics virtual world and smart user interface and mobile learning this book gathers the newest research results of smart learning environments from the aspects of learning pedagogies and technologies in learning it examines the advances in technology development and changes in the field of education that has been affecting and reshaping the learning environment then it proposes that under the changed technological situations smart learning systems no matter what platforms i e personal computers smart phones and tablets they are running at should be aware of the preferences and needs that their users i e the learners and teachers have be capable of providing their users with the most appropriate services helps to enhance the users learning experiences and to make the learning efficient

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this book explores current research on young children's beliefs and knowledge about the biological world otherwise known as folkbiology contributors discuss factors that shape the development of folkbiological knowledge as well as possible interventions designed to counteract cognitive biases that can interfere with the development of scientifically informed reasoning about natural phenomena taken together the papers provide insights into the contributions of cognitive biases to the development of biological misunderstandings and into the life experiences and contexts that can contribute to or impede accurate learning of biological concepts as part of a wider literature the insights provided by the authors are relevant to the design of educational experiences that will foster children's exploration and further their understanding of life science ideas the chapters in this book were originally published as a special issue of early education and development

when biological theories were used to understand behavior in the early 20th century they were often poorly understood ideas about race ethnicity and iq and notions of social darwinism were based on a misunderstanding and an incomplete understanding of genetics and darwin s theory of evolution by natural selection now however a biological understanding of social behavior is an integral part of modern science and increasingly used in the study of behavior in organizations yet compared with other explanatory paradigms in organizational behavior biological and evolutionary approaches are still relatively rare the biological foundations of organizational behavior provides accessible insights for scholars and practitioners in management and organizational behavior into what biology can offer their fields chapters contain enough background to orient readers who may have little knowledge of biology and provide substantive contributions to advancing understanding of specific areas of biology and human behavior in organizations they also show how the addition of biological theory and research to organizational behavior scholarship will increase its explanatory and predictive power and contribute to its scientific foundations

since k 12 students taught using the new next generation science standards will be arriving in college classrooms prepared in a different way from those in our classrooms currently it would behoove college teachers to be prepared to alter their teaching methods or be perceived to be dinosaurs using the older teaching methods from exemplary college science teaching if you re looking for inspiration to alter your teaching methods to match new standards and new times this book is for you as the first in the exemplary science series to focus exclusively on college science teaching this book offers 16 examples of college teaching that builds on what students learned in high school understanding that college does not exist in a vacuum the chapter authors demonstrate how to adapt the methods and frameworks under which secondary students have been working and make them their own for the college classroom adding new technologies when appropriate and letting the students take an active role in their learning among the innovative topics and techniques the essays in this book explore are lecture free college science teaching peer led study groups as learning communities jigsaw techniques that enhance learning inquiry incorporated into large group settings interactive video conferences for assessing student attitudes and behaviors the clichéd image of the professor droning on before a packed lecture hall is a thing of the past the essays in this book explain why and offer the promise of a better future

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