



The Natures Of Science

Frederick Aicken



The Natures Of Science:

The Natures of Science Neville McMorris, 1989 A too swift examination for the benefit evidently of fairly naive readers of broad philosophical and historical themes in the development of science The ten chapters are grouped by pairs under five topical heads which treat respectively the philosophical aesthetic cultural methodological scientific nature of science Mathematical material encountered in the final chapter Classical duality in modern physics is likely to be considered off putting by many of the intended readers Rather awkwardly composed though attractively printed and bound The author is chairman of the Physics Department at the University of the West Indies NW Annotation copyrighted by Book News Inc Portland OR

The Nature of Science Frederick Aicken, 1991 In *The Nature of Science* Frederick Aicken shows that science is neither a mere assortment of facts nor always common sense but rather a tool for the solving of problems It is not a specialized activity reserved exclusively for professional scientists but a part of human intelligence that benefits everyone Science therefore plays a vital role in the way each of us thinks and behaves Despite the traditional division of the cultures scientific discovery has profoundly influenced literature and philosophy Science is an indispensable guide in the search for truth yet it need not clash with these other guides nor with the spiritual side of our lives Dividing the cultures leads to imbalance in our knowledge and to distortion in our view of human experience Aicken's book demystifies science and places it in this larger context

The Nature of Science 2 Gary Hunt, 2010-02 The *Nature of Science* series introduces students to what science is and what scientists do Working through the major contexts for study in particular the interacting systems and processes that govern life on planet Earth students will develop the scientific skills values and attitudes that they need for life in our modern increasingly technological and science driven society They will carry out their own investigations learn how to communicate their findings and see how to link scientific ideas with everyday decisions and actions Every chapter begins with an outline of learning objectives covering Understanding about science Investigating in science and Communicating in science Every chapter includes several Science in action sections that show fascinating aspects of the applications and history of science And every chapter concludes with thought provoking Topic reviews and a full suite of Practical activities

Back cover *Teaching About Evolution and the Nature of Science* Working Group on Teaching Evolution, Board on Science Education, Division of Behavioral and Social Sciences and Education, National Academy of Sciences, 1998-04-20 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

Reconceptualizing the Nature of Science for Science Education Sibel Erduran,Zoubeida R. Dagher,2014-08-20 Prompted by the ongoing debate among science educators over nature of science and its importance in school and university curricula this book is a clarion call for a broad reconceptualizing of nature of science in science education The authors draw on the family resemblance approach popularized by Wittgenstein defining science as a cognitive epistemic and social institutional system whose heterogeneous characteristics and influences should be more thoroughly reflected in science education They seek wherever possible to clarify their developing thesis with visual tools that illustrate how their ideas can be practically applied in science education The volume s holistic representation of science which includes the aims and values knowledge practices techniques and methodological rules as well as science s social and institutional contexts mirrors its core aim to synthesize perspectives from the fields of philosophy of science and science education The authors believe that this more integrated conception of nature of science in science education is both innovative and beneficial They discuss in detail the implications for curriculum content pedagogy and learning outcomes deploy numerous real life examples and detail the links between their ideas and curriculum policy more generally

The Nature of Science ,1994 **The Intelligibility of Nature** Peter Dear,2008-09-15 Throughout the history of the Western world science has possessed an extraordinary amount of authority and prestige And while its pedestal has been jostled by numerous evolutions and revolutions science has always managed to maintain its stronghold as the knowing enterprise that explains how the natural world works we treat such legendary scientists as Galileo Newton Darwin and Einstein with admiration and reverence because they offer profound and sustaining insight into the meaning of the universe In The Intelligibility of Nature Peter Dear considers how science as such has evolved and how it has marshaled itself to make sense of the world His intellectual journey begins with a crucial observation that the enterprise of science is and has been directed toward two distinct but frequently conflated ends doing and knowing The ancient Greeks developed this

distinction of value between craft on the one hand and understanding on the other and according to Dear that distinction has survived to shape attitudes toward science ever since Teasing out this tension between doing and knowing during key episodes in the history of science mechanical philosophy and Newtonian gravitation elective affinities and the chemical revolution enlightened natural history and taxonomy evolutionary biology the dynamical theory of electromagnetism and quantum theory Dear reveals how the two principles became formalized into a single enterprise science that would be carried out by a new kind of person the scientist Finely nuanced and elegantly conceived The Intelligibility of Nature will be essential reading for aficionados and historians of science alike

The Battle for Human Nature: Science, Morality and Modern Life Barry Schwartz, 1987-08-17 Provocative and richly textured Schwartz's analyses of the inadequacies of contemporary scientific views of human nature are compelling but the consequences are even more worthy of note Los Angeles Times Out of the investigations and speculations of contemporary science a challenging view of human behavior and society has emerged and gained strength It is a view that equates human nature utterly and unalterably with the pursuit of self interest Influenced by this view people increasingly appeal to natural imperatives instead of moral ones to explain and justify their actions and those of others

The Believing Primate Jeffrey Schloss, Michael Murray, 2009-03-12 Over the last two decades scientific accounts of religion have received a great deal of scholarly and popular attention both because of their intrinsic interest and because they are widely seen as potentially constituting a threat to the religion they analyse The Believing Primate aims to describe and discuss these scientific accounts as well as to assess their implications The volume begins with essays by leading scientists in the field describing these accounts and discussing evidence in their favour Philosophical and theological reflections on these accounts follow offered by leading philosophers theologians and scientists This diverse group of scholars address some fascinating underlying questions Do scientific accounts of religion undermine the justification of religious belief Do such accounts show religion to be an accidental by product of our evolutionary development And whilst we seem naturally disposed toward religion would we fare better or worse without it Bringing together dissenting perspectives this provocative collection will serve to freshly illuminate ongoing debate on these perennial questions

Index of NLM Serial Titles National Library of Medicine (U.S.), 1979 A keyword listing of serial titles currently received by the National Library of Medicine

Decoding **The Natures Of Science**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**The Natures Of Science**," a mesmerizing literary creation penned by a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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