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a gifted scholar."  
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# **ABUSING SCIENCE**

*The Case Against  
Creationism*

*Philip Kitcher*

# Abusing Science The Case Against Creationism

**Sabine Zange**



## **Abusing Science The Case Against Creationism:**

Abusing Science Philip Kitcher, 1983-06-23 *Abusing Science* is a manual for intellectual self defense the most complete available for presenting the case against Creationist pseudo science It is also a lucid exposition of the nature and methods of genuine science The book begins with a concise introduction to evolutionary theory for non scientists and closes with a rebuttal of the charge that this theory undermines religious and moral values It will astonish many readers that this case must still be made in the 1980s but since it must Philip Kitcher makes it irresistibly and forcefully Not long ago a federal court struck down an Arkansas law requiring that scientific Creationism be taught in high school science classes Contemporary Creationists may have lost one legal battle but their cause continues to thrive Their efforts are directed not only at state legislatures but at local school boards and textbook publishers As Kitcher argues in this rigorous but highly readable book the integrity of science is under attack The methods of inquiry used in evolutionary biology are those which are used throughout the sciences Moreover modern biology is intertwined with other fields of science physics chemistry astronomy and geology Creationists hope to persuade the public that education in science should be torn apart to make room for a literal reading of Genesis *Abusing Science* refutes the popular complaint that the scientific establishment is dogmatic and intolerant denying academic freedom to the unorthodox It examines Creationist claims seriously and systematically one by one showing clearly just why they are at best misguided at worst ludicrous Abusing Science Philip Kitcher, 1982

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What is Philosophy of Science? Dean Rickles, 2020-04-20 *Philosophy of science* puts science itself under the microscope What exactly is science How do its explanations of the world differ from those of other subjects including so called pseudo sciences How should we understand and evaluate scientific methods What if anything can science tell us about the nature of

physical reality Dean Rickles guides beginners through the central topics in philosophy of science He looks at the origins and evolution of the field the issues that arise when distinguishing between science and non science the concepts of logic and associated problems scientific realism and anti realism and the nature of scientific models and representing Rickles brings the subject to sparkling life with a user friendly tone and rich real world examples What is Philosophy of Science is the must have primer for students getting to grips with this broad ranging and important topic

**Preparing Informal Science Educators** Patricia G Patrick, 2017-01-16 This book provides a diverse look at various aspects of preparing informal science educators Much has been published about the importance of preparing formal classroom educators but little has been written about the importance need and best practices for training professionals who teach in aquariums camps parks museums etc The reader will find that as a collective the chapters of the book are well related and paint a clear picture that there are varying ways to approach informal educator preparation but all are important The volume is divided into five topics Defining Informal Science Education Professional Development Designing Programs Zone of Reflexivity The Space Between Formal and Informal Educators and Public Communication The authors have written chapters for practitioners researchers and those who are interested in assessment and evaluation formal and informal educator preparation gender equity place based education professional development program design reflective practice and science communication Readers will draw meaning and usefulness from the array of professional perspectives and be stimulated to begin a quest to scaffold programs and professional development around the frameworks described in this book

**Teaching Evolution in a Creation Nation** Adam Laats, Harvey Siegel, 2016-03-03 No fight over what gets taught in American classrooms is more heated than the battle over humanity's origins For more than a century we have argued about evolutionary theory and creationism and its successor theory intelligent design yet we seem no closer to a resolution than we were in Darwin's day In this thoughtful examination of how we teach origins historian Adam Laats and philosopher Harvey Siegel offer crucial new ways to think not just about the evolution debate but how science and religion can make peace in the classroom Laats and Siegel agree with most scientists creationism is flawed as science But they argue students who believe it nevertheless need to be accommodated in public school science classes Scientific or not creationism maintains an important role in American history and culture as a point of religious dissent a sustained form of protest that has weathered a century of broad and often dramatic social changes At the same time evolutionary theory has become a critical building block of modern knowledge The key to accommodating both viewpoints they show is to disentangle belief from knowledge A student does not need to believe in evolution in order to understand its tenets and evidence and in this way can be fully literate in modern scientific thought and still maintain contrary religious or cultural views Altogether Laats and Siegel offer the kind of level headed analysis that is crucial to finding a way out of our culture war deadlock

*Science, Worldviews and Education* Michael Matthews, 2009-07-14 This book has its origins in a special issue of the journal Science Education Volume 18 Numbers 6 7 2009 The essay by Costas

Skordoulis Science and Worldviews in the Marxist Tradition did not appear in that special issue due to a mistake in production scheduling It was published in an earlier issue of the journal Volume 17 Number 6 2008 but has been included in this book version of the special issue As explained in the Introduction the catalyst for the journal special issue was the essay on Science Worldviews and Education submitted to the journal by Hugh G Gauch Jr This was circulated to the other contributors who were asked to write their own contribution in the light of the arguments and literature contained in the paper Hugh made brief Responses and Clarifications after the papers were written However the Tanis Edis article on Islam and my own article on Priestley were processed too late to benefit from Hugh's appraisal The journal is associated with the International History Philosophy and Science Teaching Group which was formed in 1987 The group stages biennial international conferences and occasional regional conferences details can be found at [www.ihpst.org](http://www.ihpst.org) The group though the journal conferences and its electronic newsletter at [www.ihpst.org](http://www.ihpst.org)

**Evolution** Donald R. Prothero, 2007-11-06 Over the past twenty years paleontologists have made tremendous fossil discoveries including fossils that mark the growth of whales manatees and seals from land mammals and the origins of elephants horses and rhinos Today there exists an amazing diversity of fossil humans suggesting we walked upright long before we acquired large brains and new evidence from molecules that enable scientists to decipher the tree of life as never before The fossil record is now one of the strongest lines of evidence for evolution In this engaging and richly illustrated book Donald R Prothero weaves an entertaining though intellectually rigorous history out of the transitional forms and series that dot the fossil record Beginning with a brief discussion of the nature of science and the monkey business of creationism Prothero tackles subjects ranging from flood geology and rock dating to neo Darwinism and macroevolution He covers the ingredients of the primordial soup the effects of communal living invertebrate transitions the development of the backbone the reign of the dinosaurs the mammalian explosion and the leap from chimpanzee to human Prothero pays particular attention to the recent discovery of missing links that complete the fossil timeline and details the debate between biologists over the mechanisms driving the evolutionary process Evolution is an absorbing combination of firsthand observation scientific discovery and trenchant analysis With the teaching of evolution still an issue there couldn't be a better moment for a book clarifying the nature and value of fossil evidence Widely recognized as a leading expert in his field Prothero demonstrates that the transformation of life on this planet is far more awe inspiring than the narrow view of extremists

*The Origin of Species Revisited: Philosophy of science, philosophy of religion, history, education, and constitutional issues* Wendell R. Bird, 1991 Presents an in depth comparison of Darwin's theory of evolution versus the theory of creation and the theory of abrupt appearance

**Toronto Journal of Theology**, 1988

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**History of Science** Alistair Cameron Crombie, Michael A. Hoskin, 1987 A review of literature and research in the history of science

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**Perspectives on Science and Christian Faith** ,2007

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