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researcher Derek Hodson
compares teaching science to
the way an anthropologist
teaches about another

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culture. Both can be seen as involving a tribe of people with particular knowledge, a certain language, customs, practices, traditions, attitudes and values. When we describe the nature of science, we are considering the special characteristics, values, and assumptions that scientific knowledge is based on and how scientific knowledge is developed.

Describing the nature of science — Science Learning Hub

Science is a path to gaining knowledge about the natural world. The study of science also includes the body of knowledge that has been

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collected through scientific inquiry. To conduct a scientific investigation, scientists ask testable questions. To answer those questions, they make systematic observations and carefully collect relevant evidence.

***The Nature of Science | Earth Science - Lumen Learning
Science is a distinctive way of gaining knowledge about the natural world that tries to answer questions with evidence and logic. Scientists assume that nature can be understood through systematic study, scientific ideas are open to revision, sound scientific ideas***

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withstand the test of time, and science cannot provide answers to all questions.

1.3: The Nature of Science - Biology LibreTexts

The Nature of Science in Science Education: An Introduction. Abstract. After providing a definition of the nature of science (NOS) for science education, we argue that a pragmatic consensus exists regarding NOS ...

Citations (416) References (74)

(PDF) The Nature of Science in Science Education: An ...

- a branch of knowledge or study dealing with a body of facts or truths systematically***

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arranged and showing the operation of general laws • systematic knowledge of the physical or material world gained through observation and experimentation • any of the branches of natural or physical science • systematized knowledge in general • knowledge, as of facts or principles; knowledge gained by systematic study

The Nature of Science - Semantic Scholar

The themes under each of the Achievement Aims below tease out ideas about the nature of science. Each theme is expanded with explanation, examples and questions for teacher reflection. The

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Achievement Aims are separated here for discussion and reflection, however, it needs to be acknowledged that this is somewhat arbitrary and it is not intended to imply that teachers will teach the ...

What is the Nature of Science? / Nature of science / Home ...

Nature of science (NOS) is a critical component of scientific literacy that enhances students' understandings of science concepts and enables them to make informed decisions about scientifically-based personal and societal issues.

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Nature of Science | NSTA

1) the nature of science is not well understood by science teachers or even scientists 2) the clear implication that without content knowledge in the nature of science there can be no pedagogical...

Teaching the nature of science (and keeping students engaged)

The Science of Nature, formerly

Naturwissenschaften, is a monthly peer-reviewed scientific journal published by Springer Science+Business Media covering all aspects of the natural sciences relating to questions of biological significance. It was founded

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in 1913 and intended as a German-language equivalent of the English-language journal Nature, at a time when German was still a dominant language of the natural sciences. The journal is now published in English.

The Science of Nature - Wikipedia

The Science of Nature - Naturwissenschaften - is Springer's flagship multidisciplinary science journal. The journal is dedicated to the fast publication and global dissemination of high-quality research and invites papers, which are of interest to the broader community in the

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biological sciences. Contributions from the chemical, geological, and physical sciences are welcome if contributing to questions of general biological significance.

***The Science of Nature | Home
Chapter 1: THE NATURE OF
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human history, people have
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ideas about the physical,
biological, psychological, and
social worlds.***

***Chapter 1: The Nature of
Science - Project 2061
Science is a particular way of
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world. It extends the intrinsic curiosity with which we are born. It allows us to connect the past with the present, as with the redwoods depicted here.

***Nature of science - Evolution
In this video Paul Andersen explains the nature of science. He describes how science is a way of knowing about the natural world.
Scientists develop investig...***

***The Nature of Science -
YouTube***

Nature of Science is an essential science curriculum component you will find in the in the United States (see Next Generation of the Science

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Standards) But the emphasis on addressing the nature of science in science lessons is not a new education reform plan. It has been of some concern for many decades.

Nature of Science - Science Teacher Portal

Abstract In the science education research field there is a large body of literature on the 'nature of science' (NOS). NOS captures issues about what characterizes the research process as well as the scientific knowledge. Here we, in line with a broad body of literature, use a wide definition of NOS including also e.g. socio-cultural aspects.

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Working with the nature of science in physics class ... Natural science is a branch of science concerned with the description, prediction, and understanding of natural phenomena, based on empirical evidence from observation and experimentation. Mechanisms such as peer review and repeatability of findings are used to try to ensure the validity of scientific advances.. Natural science can be divided into two main branches: life science and physical ...

***Natural science - Wikipedia
There is a clear message that***

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understanding the nature of science is crucial for effective science teaching, for valuable science learning and for responsible participation in society. New Zealand's curriculum document clearly and strongly emphasises the importance of the nature of science by placing it as the overarching and unifying strand.

Reasons for teaching the nature of science – Science

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The Nature of Science in Science Education is the first book to blend a justification for the inclusion of the history and philosophy of science in science teaching with

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***methods by which this vital
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