

According to the Deductive-Nomological Model, a scientific explanation consists of two major “constituents”: an explanandum, a sentence “describing the phenomenon to be explained” and an explanans, “the class of those sentences which are adduced to account for the phenomenon” (Hempel and Oppenheim, , reprinted in. Science is the study of the natural world through observation and experiment. A scientific explanation uses observations and measurements to explain something we see in the natural world. Scientific explanations should match the evidence and be logical, or they should at least match as much of the evidence as possible.

The Local Role Of The U.S. Parole Commission: Increasing Public Safety, Reducing Recidivism, And Usi, On War: Men, War, And Women, A Framework To Assess Programs For Building Partnerships, The Last Tsarina, My Name Is Iran: A Memoir, Picnic With Piggins, Deion Sanders: Star Athlete,

The most productive model for the structure of a scientific explanation is that of a valid deductive argument whose conclusion is the event to be explained. “Scientific explanation” is the traditional name for a topic philosophers of science are supposed to have something to say about. But it is a bad name for that topic. For one thing, theories of scientific explanation don't have an activity that is exclusive to scientists as their subject matter.

This chapter argues that the notion of explanation relevant to the philosophy of science is that of an answer to a why-question. From this point of view it surveys. Scientific Explanation. Michael Strevens. For the Macmillan Encyclopedia of Philosophy, second edition. The three cardinal aims of science are prediction. The scientific explanation about life existing on other planets is very plausible because we know very little about our vast universe. Licensed from GettyImages. Explanation: a scientific explanation of an event or regularity is an argument that purports to demonstrate why the event or regularity came to pass, given other.

A range of books, articles, and encyclopedic entries are included here to introduce readers to the topic of scientific explanation. Hempel Scientific Explanation. See allHide authors and affiliations. Science 20 Mar Vol. , Issue , pp. DOI: /science

Scientific ExplanationBIBLIOGRAPHY Source for information on Scientific Explanation: International Encyclopedia of the Social Sciences dictionary. Scientific explanations: Characterizing and evaluating the effects of teachers' Journal of Research in Science Teaching 45(1): for use in the AP Biology. In the first chapter (Theories of Scientific Explanation) of this book, the milestones in the debate on how to characterize scientific explanations are exposed. The.

A writing scaffold, called the Explanation Tool, can help students in science classrooms make sense of natural phenomena and develop explanations for those. The ontic conception sees a scientific explanation as an exhibition of the ways in which what is to be explained fits into natural patterns or regularities in the. Scientific explanations often take one of two forms. The first is instantiation. According to this form, an event is said to be explained when it can be expressed as.

Science holds our lives together. It explains everything from why bread rises to why you need gas to power your car. In his book Atoms Under the Floorboards.

[\[PDF\] The Local Role Of The U.S. Parole Commission: Increasing Public Safety, Reducing Recidivism, And Usi](#)

[\[PDF\] On War: Men, War, And Women](#)

[\[PDF\] A Framework To Assess Programs For Building Partnerships](#)

[\[PDF\] The Last Tsarina](#)

[\[PDF\] My Name Is Iran: A Memoir](#)

[\[PDF\] Picnic With Piggins](#)

[\[PDF\] Deion Sanders: Star Athlete](#)