SCIENTIFIC MODELS

 Representation of an object, idea, or process

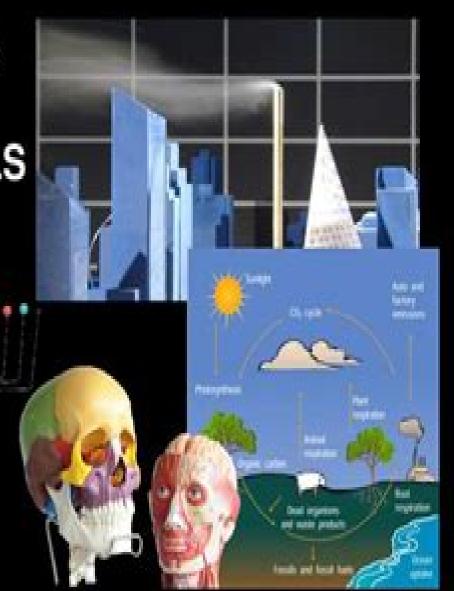
Scientists often use MODELS
 as a tool to understand an
 object or idea.

- 3-D representation

2-D diagram

- Physical Analogy

- Theoretical Analogy or Metaphor



Models Representation And The Scientific Understanding

Marx W. Wartofsky

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<u>Scientific Understanding and Representation</u> Insa Lawler, Kareem Khalifa, Elay Shech, 2022-12-13 This volume assembles cutting edge scholarship on scientific understanding scientific representation and their delicate interplay Featuring several articles in an engaging critical conversation format the volume integrates discussions about understanding and

representation with perennial issues in the philosophy of science including the nature of scientific knowledge idealizations scientific realism scientific inference and scientific progress In the philosophy of science questions of scientific understanding and scientific representation have only recently been put in dialogue with each other The chapters advance these discussions from a variety of fresh perspectives. They range from case studies in physics chemistry and neuroscience to the representational challenges of machine learning models from special forms of representation such as maps and topological models to the relation between understanding and explanation and from the role of idealized representations to the role of representation and understanding in scientific progress Scientific Understanding and Representation will appeal to scholars and advanced students working in philosophy of science philosophy of physics philosophy of mathematics and epistemology Boston Studies in the Philosophy of Science Cohen, Robert Sonné Cohen, Marx W. Wartofsky, 1979 How to Do Science with Models Axel Gelfert, 2015-12-21 Taking scientific practice as its starting point this book charts the complex territory of models used in science It examines what scientific models are and what their function is Reliance on models is pervasive in science and scientists often need to construct models in order to explain or predict anything of interest at all The diversity of kinds of models one finds in science ranging from toy models and scale models to theoretical and mathematical models has attracted attention not only from scientists but also from philosophers sociologists and historians of science This has given rise to a wide variety of case studies that look at the different uses to which models have been put in specific scientific contexts By exploring current debates on the use and building of models via cutting edge examples drawn from physics and biology the book provides broad insight into the methodology of modelling in the natural sciences It pairs specific arguments with introductory material relating to the ontology and the function of models and provides some historical context to the debates as well as a sketch of general positions in the philosophy of scientific models in the process

Understanding Scientific Understanding Henk W. de Regt,2017-07-24 It is widely acknowledged that a central aim of science is to achieve understanding of the world around us and that possessing such understanding is highly important in our present day society But what does it mean to achieve this understanding What precisely is scientific understanding These are philosophical questions that have not yet received satisfactory answers While there has been an ongoing debate about the nature of scientific explanation since Carl Hempel advanced his covering law model in 1948 the related notion of understanding has been largely neglected because most philosophers regarded understanding as merely a subjective by product of objective explanations By contrast this book puts scientific understanding center stage It is primarily a philosophical study but also contains detailed historical case studies of scientific practice In contrast to most existing studies in this area it takes into account scientists views and analyzes their role in scientific debate and development The aim of Understanding Scientific Understanding is to develop and defend a philosophical theory of scientific understanding that can describe and explain the historical variation of criteria for understanding actually employed by scientists The theory does

justice to the insights of such famous physicists as Werner Heisenberg and Richard Feynman while bringing much needed conceptual rigor to their intuitions The scope of the proposed account of understanding is the natural sciences while the detailed case studies derive from physics examples from other sciences are presented to illustrate its wider validity

Models and Theories Roman Frigg, 2022-06-28 Models and theories are of central importance in science and scientists spend substantial amounts of time building testing comparing and revising models and theories It is therefore not surprising that the nature of scientific models and theories has been a widely debated topic within the philosophy of science for many years The product of two decades of research this book provides an accessible yet critical introduction to the debates about models and theories within analytical philosophy of science since the 1920s Roman Frigg surveys and discusses key topics and questions including What are theories What are models And how do models and theories relate to each other The linguistic view of theories also known as the syntactic view of theories covering different articulations of the view its use of models the theory observation divide and the theory ladenness of observation and the meaning of theoretical terms The model theoretical view of theories also known as the semantic view of theories covering its analysis of the model world relationship the internal structure of a theory and the ontology of models Scientific representation discussing analogy idealisation and different accounts of representation Modelling in scientific practice examining how models relate to theories and what models are classifying different kinds of models and investigating how robustness analysis perspectivism and approaches committed to uncertainty management deal with multi model situations Models and Theories is the first comprehensive book length treatment of the topic making it essential reading for advanced undergraduates researchers and professional philosophers working in philosophy of science and philosophy of technology It will also be of interest to philosophically minded readers working in physics computer sciences and STEM fields more broadly Understanding Anna Elisabeth Höhl, 2024-04-02 Understanding is an ability manifested by grasping relations of a phenomenon and articulating new explanations Hence scientific understanding is inextricably intertwined with and not possible without explanation and understanding is not a type of propositional knowledge Anna Elisabeth H hl provides a novel philosophical account of scientific understanding by developing and defending necessary and sufficient conditions for the understanding that scientists achieve of the phenomena they are researching This account of scientific understanding is based on and supported by a detailed investigation of an episode from scientific practice in biology **Scientific** Understanding Henk W. de Regt, Sabina Leonelli, Kai Eigner, 2014-08-09 To most scientists and to those interested in the sciences understanding is the ultimate aim of scientific endeavor In spite of this understanding and how it is achieved has received little attention in recent philosophy of science Scientific Understanding seeks to reverse this trend by providing original and in depth accounts of the concept of understanding and its essential role in the scientific process To this end the chapters in this volume explore and develop three key topics understanding and explanation understanding and models and

understanding in scientific practice Earlier philosophers such as Carl Hempel dismissed understanding as subjective and pragmatic They believed that the essence of science was to be found in scientific theories and explanations In Scientific Understanding the contributors maintain that we must also consider the relation between explanations and the scientists who construct and use them They focus on understanding as the cognitive state that is a goal of explanation and on the understanding of theories and models as a means to this end The chapters in this book highlight the multifaceted nature of the process of scientific research The contributors examine current uses of theory models simulations and experiments to evaluate the degree to which these elements contribute to understanding Their analyses pay due attention to the roles of intelligibility tacit knowledge and feelings of understanding Furthermore they investigate how understanding is obtained within diverse scientific disciplines and examine how the acquisition of understanding depends on specific contexts the objects of study and the stated aims of research Models and Idealizations in Science Alejandro Cassini, Juan Redmond, 2021-05-27 This book provides both an introduction to the philosophy of scientific modeling and a contribution to the discussion and clarification of two recent philosophical conceptions of models artifactualism and fictionalism These can be viewed as different stances concerning the standard representationalist account of scientific models By better understanding these two alternative views readers will gain a deeper insight into what a model is as well as how models function in different sciences Fictionalism has been a traditional epistemological stance related to antirealist construals of laws and theories such as instrumentalism and inferentialism By contrast the more recent fictional view of models holds that scientific models must be conceived of as the same kind of entities as literary characters and places This approach is essentially an answer to the ontological question concerning the nature of models which in principle is not incompatible with a representationalist account of the function of models. The artifactual view of models is an approach according to which scientific models are epistemic artifacts whose main function is not to represent the phenomena but rather to provide epistemic access to them It can be conceived of as a non representationalist and pragmatic account of modeling which does not intend to focus on the ontology of models but rather on the ways they are built and used for different purposes The different essays address questions such as the artifactual view of idealization the use of information theory to elucidate the concepts of abstraction and idealization the deidealization of models the nature of scientific fictions the structural account of representation and the ontological status of structures the role of surrogative reasoning with models and the use of models for explaining and predicting physical phenomena

The Enigmatic Realm of **Models Representation And The Scientific Understanding**: Unleashing the Language is Inner Magic

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