Deductive reasoning

MConsulting Prep

| Existing theory | → | Formulate hypothesis | → | Collect data | → | Analyze data | → | Do/don't reject hypothesis |

Example

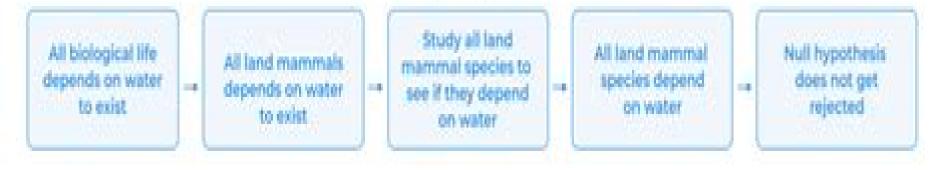| All biological life depends on water to exist | → | All land mammals depends on water to exist | → | Study all land mammal species to see if they depend on water | → | All land mammal species depend on water | → | Null hypothesis does not get rejected |

Deductive Logic

David S. Clarke,Richard Behling

Deductive Logic:

A Text-book of Deductive Logic P. K. Ray,Prasanna K. Ray,1886 **Principles of Deductive Logic** , Clear focus on its application of formal logic to ordinary English is the most distinctive feature of this textbook for the introductory course in deductive logic Great care is taken with the appropriate translation into logical languages of ordinary English sentences Evaluation of these translations promotes a more effective use of ordinary language The Principles of Deductive Logic presents symbolic logic in a fuller and more leisurely fashion than other introductory textbooks Early chapters cover informal material including definition and informal fallacies The remainder of the text is devoted to the treatment of four distinct artificial languages The Categorical language is the language of syllogistic logic The Extended Categorical language enriches this first language with the symbolic connectives for conjunction and negation The Propositional Connective language and the First Order language with identity are the two basic languages of modern logic Each language is accompanied by a deductive system and is used as an instrument for exploring ordinary language including ordinary arguments The book contains a large number of exercises whose answers are supplied in the back of the book and many more that can be assigned as homework A solution s manual is available to instructors upon their request The request must be written on college or university letterhead   Deductive Logic Warren Goldfarb,2003-09-15 This text provides a straightforward lively but rigorous introduction to truth functional and predicate logic complete with lucid examples and incisive exercises for which Warren Goldfarb is renowned   **A Text-Book of Deductive Logic** Ray P K,2023-07-18 A Text Book of Deductive Logic is a comprehensive guide to the principles of deductive logic Written by PK Ray a professor of philosophy the book provides clear explanations and examples of the principles of deductive reasoning and their applications With exercises and problems to reinforce understanding this book is an indispensable resource for students of philosophy and logic This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant   Deductive Logic David S. Clarke,Richard Behling,1998 Deductive Logic is designed as an intermediate level text directed at upper division students from philosophy and the humanities Its focus is exclusively on deductive logic avoiding altogether topics such as informal reasoning and scientific method normally included in introductory logic courses Its exposition of logical topics is informal with emphasis on explaining the basic concepts and procedures of modern symbolic logic in the simplest and most intuitive manner possible rather than on developing a rigorous formal system and providing proofs of its properties The fact that the text presupposes a course offered to philosophy students and serves

to introduce them to logic as the language of philosophy has strongly influenced the selection of topics The topics here are controversial and the problems not easily resolved but this text strives to relate the formal logical structures introduced to issues of philosophic interest   Elements of Deductive Logic Noah Knowles Davis,1893   *The Elements of Deductive Logic* Thomas Fowler,1895   The elements of deductive logic Thomas Fowler,1883   **An Introduction to Deductive Logic** Hugues Leblanc,1955   Studies in Deductive Logic William Stanley Jevons,1896   **Deductive LogicGoldfarb W. ,2003**   *The Psychology of Proof* Lance J. Rips,2003-01-01 Lance Rips describes a unified theory of natural deductive reasoning and fashions a working model of deduction with strong experimental support that is capable of playing a central role in mental life In this provocative book Lance Rips describes a unified theory of natural deductive reasoning and fashions a working model of deduction with strong experimental support that is capable of playing a central role in mental life Rips argues that certain inference principles are so central to our notion of intelligence and rationality that they deserve serious psychological investigation to determine their role in individuals beliefs and conjectures Asserting that cognitive scientists should consider deductive reasoning as a basis for thinking Rips develops a theory of natural reasoning abilities and shows how it predicts mental successes and failures in a range of cognitive tasks In parts I and II of the book Rips builds insights from cognitive psychology logic and artificial intelligence into a unified theoretical structure He defends the idea that deduction depends on the ability to construct mental proofs actual memory units that link given information to conclusions it warrants From this base Rips develops a computational model of deduction based on two cognitive skills the ability to make suppositions or assumptions and the ability to posit sub goals for conclusions A wide variety of original experiments support this model including studies of human subjects evaluating logical arguments as well as following and remembering proofs Unlike previous theories of mental proof this one handles names and variables in a general way This capability enables deduction to play a crucial role in other thought processes such as classifying and problem solving In part III Rips compares the theory to earlier approaches in psychology which confined the study of deduction to a small group of tasks and examines whether the theory is too rational or too irrational in its mode of thought   **Deductive Logic** George William Joseph Stock,St George William Joseph Stock,2014-04-10 1 LOGIC is divided into two branches namely 1 Inductive 2 Deductive 2 The problem of inductive logic is to determine the actual truth or falsity of propositions the problem of deductive logic is to determine their relative truth or falsity that is to say given such and such propositions as true what others will follow from them 3 Hence in the natural order of treatment inductive logic precedes deductive since it is induction which supplies us with the general truths from which we reason down in our deductive inferences 4 It is not however with logic as a whole that we are here concerned but only with deductive logic which may be defined as The Science of the Formal Laws of Thought 5 In order fully to understand this definition we must know exactly what is meant by thought by a law of thought by the term formal and by science 6 Thought as here used is confined to the faculty of comparison All thought involves comparison that is

to say a recognition of likeness or unlikeness 7 The laws of thought are the conditions of correct thinking The term law however is so ambiguous that it will be well to determine more precisely in what sense it is here used **Deductive Logic and Descriptive Language** Frank R. Harrison,1969 *Deductive Logic* George William Joseph Stock, St.,2013-08 1 LOGIC is divided into two branches namely 1 Inductive 2 Deductive 2 The problem of inductive logic is to determine the actual truth or falsity of propositions the problem of deductive logic is to determine their relative truth or falsity that is to say given such and such propositions as true what others will follow from them 3 Hence in the natural order of treatment inductive logic precedes deductive since it is induction which supplies us with the general truths from which we reason down in our deductive inferences 4 It is not however with logic as a whole that we are here concerned but only with deductive logic which may be defined as The Science of the Formal Laws of Thought 5 In order fully to understand this definition we must know exactly what is meant by thought by a law of thought by the term formal and by science 6 Thought as here used is confined to the faculty of comparison All thought involves comparison that is to say a recognition of likeness or unlikeness 7 The laws of thought are the conditions of correct thinking The term law however is so ambiguous that it will be well to determine more precisely in what sense it is here used **A Text-Book of Deductive Logic** P. K. Ray,2015-06-16 Excerpt from A Text Book of Deductive Logic For the Use of Students The present work has been mainly prepared for the use of students An attempt has been made to explain clearly and concisely the fundamental doctrines of Deductive Logic The work consists of three Parts with an Introduction and an Appendix The first chapter of the Introduction treats in the first place of the definition and province of Logic and then proceeds to the special subject of the book and lays down its scope and limits The second chapter explains the fundamental principles of Deductive Logic The three parts then treat successively of Terms Propositions and Deductive Reasoning In the chapter on Immediate Inference a full account is given of the generally accepted forms The method of demonstration by circles so extensively employed in this work for proving both immediate and mediate inferences is not new The use of circles says Ueberweg as an aid in the demonstration of the doctrine of Syllogism especially in Syllogistic proper has been referred by modern logicians e g by Mass J D Gergonne Bachmann and Bolazano to Euler About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books Find more at www forgottenbooks com This book is a reproduction of an important historical work Forgotten Books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy In rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition We do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works **Scientific Method in Practice** Hugh G. Gauch,2003 As the gateway to scientific thinking an understanding of the scientific method is essential for success and productivity in science This book is the first synthesis of the practice and the philosophy of the scientific method It will enable scientists to be better scientists by offering them a

deeper understanding of the underpinnings of the scientific method thereby leading to more productive research and experimentation It will also give scientists a more accurate perspective on the rationality of the scientific approach and its role in society Beginning with a discussion of today s science wars and science s presuppositions the book then explores deductive and inductive logic probability statistics and parsimony and concludes with an examination of science s powers and limits and a look at science education Topics relevant to a variety of disciplines are treated and clarifying figures case studies and chapter summaries enhance the pedagogy This adeptly executed comprehensive yet pragmatic work yields a new synergy suitable for scientists and instructors and graduate students and advanced undergraduates **Deductive Logic** George William Joseph Stock,2023-05-19 Reproduction of the original Deductive Logic George William Joseph Stock,2015-08-27 1 LOGIC is divided into two branches namely 1 Inductive 2 Deductive 2 The problem of inductive logic is to determine the actual truth or falsity of propositions the problem of deductive logic is to determine their relative truth or falsity that is to say given such and such propositions as true what others will follow from them **Introduction to Logic and Logical Discourse** Satya Sundar Sethy,2021-06-12 This book focuses on logic and logical language It examines different types of words terms and propositions in detail While discussing the nature of propositions it illustrates the procedures used to determine the truth and falsity of a proposition and the validity and invalidity of an argument In addition the book provides a clear exposition of the pure and mixed form of syllogism with suitable examples The book encompasses sentential logic predicate logic symbolic logic induction and set theory topics The book is designed to serve all those involved in teaching and learning courses on logic It offers a valuable resource for students and researchers in philosophy mathematics and computer science disciplines Given its scope it is an essential read for everyone interested in logic language formulation of the hypotheses for the scientific enquiries and research studies and judging valid and invalid arguments in the natural language discourse

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Table of Contents Deductive Logic

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