

Inductive Method In Mathematics

School mathematics is a complex subject and an ever-changing topic, but this book will help teachers, parents and employers to understand it better.

This systematic and historical treatment of Russell's contributions to analytic philosophy, from his embrace of analysis in 1898 to his landmark theory of descriptions in 1905, draws important connections between his philosophically motivated conception of analysis and the technical apparatus he devised to facilitate analyses in mathematics

This book provides a critical reflection on automated science and addresses the question whether the computational tools we developed in last decades are changing the way we humans do science. More concretely: Can machines replace scientists in crucial aspects of scientific practice? The contributors to this book re-think and refine some of the main concepts by which science is understood, drawing a fascinating picture of the developments we expect over the next decades of human-machine co-evolution. The volume covers examples from various fields and areas, such as molecular biology, climate modeling, clinical medicine, and artificial intelligence. The explosion of technological tools and drivers for scientific research calls for a renewed understanding of the human character of science. This book aims precisely to contribute to such a renewed understanding of science.

Arithmetic Upon the Inductive Method of Instruction

Vagueness and Mathematical Discourse

Intellectual Arithmetic: Upon the Inductive Method of Instruction

A Critical Reflection on Automated Science

The Mathematics Teacher

An Approachable Guide to Understanding Basic Concepts

Excerpt from Arithmetic Upon the Inductive Method of Instruction: Being a Sequel to Intellectual Arithmetic 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.

Excerpt from A Mental Arithmetic by the Inductive Method: For Use in Elementary and Higher Schools The great importance of Mental Arithmetic in the school curriculum of to-day is a settled question. But the nature of the work given under this head is a matter upon which educators have not always agreed, and hence in this great diversity of opinion we have had a widely differing class of problems for mental work given to the teachers of this country during the last half century. 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.

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Public School Algebra on the Inductive Method

An Introd. to Algebra Upon the Inductive Method of Instruction - Primary Source Edition

An Introduction to Algebra Upon the Inductive Method of Instruction

Analysis of Research in the Teaching of Mathematics

Easy Lessons in Mental Arithmetic, Upon the Inductive Method

Economics for C.A. Professional Education Course 1

Excerpt from Colburn's First Lessons: Intellectual Arithmetic, Upon the Inductive Method of Instruction The above mode of adding may be shortened by leading the class to say as follows: One and one are two, and one are three, and one are four, &c. At any time the word designating the counter may be used along with the number, as beans, balls, pieces, marks. Or books, as the case may be. At times it will be well to give some fictitious designation to the counters, such as the teacher, or still better such as some one of the class, may choose, calling them men, sheep horses, &c. 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.

Excerpt from New Complete Arithmetic: On the Inductive Method, With Parallel Mental and Written Exercises The best way to

awaken interest, stimulate a spirit of self reliance, and open the mind to a thorough knowledge of the subject is to lead a pupil by easy and graded steps to discover principles and methods for himself. Therefore a practical union of induction and deduction is one of the strongest possible features of a good arithmetic. A special effort has been made to construct the present work on this plan. Not only are new topics introduced by carefully prepared inductive exercises, but, under the heading of parallel problems, each exercise intended for written work is preceded by an inductive question. The teacher should encourage the pupils to look to these oral questions for such hints as they may need in solving the more difficult problems, and thus train them in induction and deduction, as well as in mental and written work. The notation of numbers, operations, and relations forms the language of mathematics. It is not only the vehicle of thought, but very largely the means by which thought is directed and energized. In this, as in other things, it is a mistake to pass hastily from the concrete to the abstract. 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.

Excerpt from *Geometry Upon the Inductive Method: To Which Is Added an Introduction to Descriptive Geometry* Be it remembered, that on the second day of November, 1829, in the fifty-fourth year of the Independence of the United States of America, Hilliard & Brown, of the said district, have deposited in this office the title of a book, the right whereof they claim as proprietors, in the words following, to wit; "Elements of Geometry upon the Inductive Method. To which is added an Introduction to Descriptive Geometry. By James Hayward, A.M. -ely College Professor of Mathematics and Natural Philosophy in Harvard University." In conformity to an act of the Congress of the United States, entitled "An act for the encouragement of learning, by securing the copies of maps, charts, and books, to the authors and proprietors of such copies during the times therein mentioned;" and also to an act, entitled "An act supplementary to an act, entitled 'An act for the encouragement of learning, by securing the copies of maps, charts, and books, to the authors and proprietors of such copies during the times therein mentioned;' and extending the benefits thereof to the arts of designing, engraving, and etching historical and other prints." 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.

Research in Collegiate Mathematics Education III

Naturalizing Logico-Mathematical Knowledge

Being a Sequel to Intellectual Arithmetic (Classic Reprint)

The 19th ICMI Study

Intended as an Introductory Series of Development Lessons to Form a Guide to Oral Teaching and a Thorough Introduction to Larger Works

Fundamental Constructs in Mathematics Education

Excerpt from *Arithmetic Upon the Inductive Method of Instruction: Being a Sequel to Intellectual Arithmetic* This Sequel consists of two parts. The first contains a course of examples for the illustration and application of the principles. The second part contains a developement of the principles. The articles are numbered in the two, so as to correspond with each other. The two parts are to be studied together, when the pupil is old enough to comprehend the second part by reading it himself. When he has performed all the examples in an article in the first part, he should be required to recite the corresponding article in the second part, not verbatim, but to give a good account of the reasoning. When the principle is well understood, the rules which are printed in Italics should be committed to memory. At each recitation, the first thing should be to require the pupil to give a practical example, involving the principle to be explained, and then an explanation of the principle itself. 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.

THIS BOOK IS AVAILABLE AS OPEN ACCESS BOOK ON SPRINGERLINK One of the most significant tasks facing mathematics educators is to understand the role of mathematical reasoning and proving in mathematics teaching, so that its presence in instruction can be enhanced. This challenge has been given even greater importance by the assignment to proof of a more prominent place in the mathematics curriculum at all levels. Along with this renewed emphasis, there has been an upsurge in research on the teaching and learning of proof at all grade levels, leading to a re-examination of the role of proof in the curriculum and of its relation to other forms of explanation, illustration and justification. This book, resulting from the 19th ICMI Study, brings together a variety of viewpoints on issues such as: The potential role of reasoning and proof in deepening mathematical understanding in the classroom as it does in mathematical practice. The developmental nature of mathematical reasoning and proof in teaching and learning from the earliest grades. The development of suitable curriculum materials and teacher education programs to support the teaching of proof and proving. The book considers proof and proving as complex but foundational in mathematics. Through the systematic examination of recent research this volume offers new ideas aimed at enhancing the place of proof and proving in our classrooms. This book offers an introduction to mathematical proofs and to the fundamentals of modern mathematics. No real prerequisites are needed other than a suitable level of mathematical maturity. The text is divided into two parts, the first of which constitutes the core of a one-semester course covering proofs, predicate calculus, set theory, elementary number theory, relations, and functions, and the second of which applies this material to a more advanced study of selected topics in pure mathematics,

applied mathematics, and computer science, specifically cardinality, combinatorics, finite-state automata, and graphs. In both parts, deeper and more interesting material is treated in optional sections, and the text has been kept flexible by allowing many different possible courses or emphases based upon different paths through the volume.

The Teaching of High School Mathematics

A Contemporary Introduction to the World of Proofs and Pictures

Colburn's First Lessons

Morality and Mathematics

Intermediate Arithmetic on the Inductive Method, With Parallel Mental and Written Exercises (Classic Reprint)

To Which Is Added an Introduction to Descriptive Geometry

It has been alleged that few American students can use their knowledge effectively in thinking and reasoning. This study urges teachers to give more attention to student abilities in analyzing, classifying, comparing, formulating hypotheses, and drawing conclusions--that is, thinking skills essential to reasoning processes. Designed to familiarize secondary classroom teachers with one model of instruction for developing students' reasoning abilities, this book gives practical assistance in learning how to use the inductive approach, a teaching approach that actively involves students in the use of their own reasoning while learning content area material. Each chapter of the book includes a section that asks readers to recall experience pertinent to the material in the chapter, a set of questions to answer as the material is read, and a series of activities designed to lead readers through the developmental stages of the learning process. Chapters of the book are: (1) What is the inductive approach? (2) Why use the inductive approach? (3) How to use the inductive approach for concept development; (4) How to use the inductive approach for principle formation; (5) Inductive reasoning in English; (6) Inductive reasoning in mathematics; (7) Inductive reasoning in science; and (8) Inductive reasoning in social studies. A 90-item bibliography is attached. (RS)

Excerpt from An Introduction to Algebra Upon the Inductive Method of Instruction Tm: first object of the author of the following treatise has been to make the transition from arithmetic to algebra as gradual as possible. The book, therefore, commences with practical questions in simple equations, such as the learner might readily solve without the aid of algebra. This requires the explanation of only the signs plus and minus, the mode of expressing multiplication and division, and the sign of equality together with the use of a letter to express the un known quantity. These may be understood by any one who has a tolerable knowledge of arithmetic. All of them, except the use of the letter, have been explained in arithmetic. To reduce such an equation requires only the application of the-ordinary rules of arithmetic and these are applied so simply, that scarcely any one can mistake them, if left entirely to himself. One or two questions are solved first with little explanation in order to give the learner an idea of what is want ed, and he is then left to solve several by himself. 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.

Excerpt from Intermediate Arithmetic on the Inductive Method, With Parallel Mental and Written Exercises The chief difference between a good and an inferior Arith metic is not so much a question of matter and rules, as it is of method in the presentation and development of principles. In the former, few mathematicians would be bold enough to lay claim to originality; but in the latter every one will, perhaps, admit there is room for improvement. 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.

A Mental Arithmetic by the Inductive Method

Discrete Mathematics - Proof Techniques And Mathematical Structures

Will Science Remain Human?

On the Inductive Method, With Parallel Mental and Written Exercises (Classic Reprint)

Mathematics and Plausible Reasoning: Patterns of plausible inference

This book brings together a collection of classic tasks, extracts and texts that have been quoted repeatedly in mathematics education literature.

To what extent are the subjects of our thoughts and talk real? This is the question of realism. In this book, Justin Clarke-Doane explores arguments for and against moral realism and mathematical realism, how they interact, and what they can tell us about areas of philosophical interest more generally. He argues that, contrary to widespread belief, our mathematical beliefs have no better claim to being self-evident or provable than our moral beliefs. Nor do our mathematical beliefs have better claim to being empirically justified than our moral beliefs. It is also incorrect that reflection on the "genealogy" of our moral beliefs establishes a lack of parity between the cases. In general, if one is a moral antirealist on the basis of epistemological considerations, then one ought to be a mathematical antirealist as well. And, yet, Clarke-Doane shows that moral realism and mathematical realism do not stand or fall together -- and for a surprising reason. Moral questions, insofar as they are practical, are objective in a sense that mathematical questions are not, and the sense in which they are objective can only be explained by assuming practical anti-realism. One upshot of the discussion is that the concepts of realism and objectivity, which are widely identified, are actually in tension. Another is that the objective questions in the neighborhood of factual areas like logic, modality, grounding, and nature are practical questions too. Practical philosophy should, therefore, take center stage. The teaching and learning of mathematics in Saskatchewan—one of three Canadian provinces sharing a border with Montana—has a long and storied history. An integral part of the past 50 years (1961-2011) of history has been vinculum: Journal of the Saskatchewan Mathematics Teachers' Society (in its many different renditions). This monograph, which presents ten memorable articles from each of the past five decades (i.e., 50 articles from the past 50 years of the journal), provides an opportunity to share this rich history with a wide range of individuals interested in the teaching and learning of mathematics and mathematics education.

Each decade begins with an introduction, providing a historical context, and concludes with a decade-specific commentary by a prominent member of the Saskatchewan mathematics education community. As a result, this monograph provides a historical account as well as a contemporary view of many of the trends and issues (e.g., curriculum, technology) in the teaching and learning of mathematics. This book is meant to serve as a resource for a variety of individuals, including teachers of mathematics, mathematics teacher educators, mathematics education researchers, historians, and undergraduate and graduate students and, further, as a celebratory retrospective on the work of the Saskatchewan Mathematics Teachers' Society.

Teaching Of Mathematics

Philosophy of Mathematics

The Teaching of Mathematics in the Elementary and the Secondary School

A Causal Analysis of the Relationship of Selected Student Traits to Achievement Under a Computer-delivered Inductive Method of Instruction in Finite Mathematics

Adapted to the Best Mode of Instruction in Primary Schools (Classic Reprint)

Celebrating 50 years (1961-2011) of Vinculum

New Complete Arithmetic **On the Inductive Method, With Parallel Mental and Written Exercises (Classic Reprint)** **Forgotten Books**

The heart of mathematics is its elegance; the way it all fits together. Unfortunately, its beauty often eludes the vast majority of people who are intimidated by fear of the difficulty of numbers. Mathematical Elegance remedies this. Using hundreds of examples, the author presents a view of the mathematical landscape that is both accessible and fascinating. At a time of concern that American youth are bored by math, there is renewed interest in improving math skills. Mathematical Elegance stimulates students, along with those already experienced in the discipline, to explore some of the unexpected pleasures of quantitative thinking. Invoking mathematical proofs famous for their simplicity and brainteasers that are fun and illuminating, the author leaves readers feeling exuberant-as well as convinced that their IQs have been raised by ten points. A host of anecdotes about well-known mathematicians humanize and provide new insights into their lofty subjects. Recalling such classic works as Lewis Carroll's Introduction to Logic and A Mathematician Reads the Newspaper by John Allen Paulos, Mathematical Elegance will energize and delight a wide audience, ranging from intellectually curious students to the enthusiastic general reader.

This book is meant as a part of the larger contemporary philosophical project of naturalizing logico-mathematical knowledge, and addresses the key question that motivates most of the work in this field: What is philosophically relevant about the nature of logico-mathematical knowledge in recent research in psychology and cognitive science? The question about this distinctive kind of knowledge is rooted in Plato's dialogues, and virtually all major philosophers have expressed interest in it. The essays in this collection tackle this important philosophical query from the perspective of the modern sciences of cognition, namely cognitive psychology and neuroscience. Naturalizing Logico-Mathematical Knowledge contributes to consolidating a new, emerging direction in the philosophy of mathematics, which, while keeping the traditional concerns of this sub-discipline in sight, aims to engage with them in a scientifically-informed manner. A subsequent aim is to signal the philosophers' willingness to enter into a fruitful dialogue with the community of cognitive scientists and psychologists by examining their methods and interpretive strategies.

Geometry Upon the Inductive Method

Inductive Reasoning in the Secondary Classroom

New Complete Arithmetic

Teaching Maths

Proof and Proving in Mathematics Education

Modern Teaching of Mathematics

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Volume III of Research in Collegiate Mathematics Education (RCME) presents state-of-the-art research on understanding, teaching, and learning mathematics at the post-secondary level. This volume contains information on methodology and research concentrating on these areas of student learning: Problem solving - included here are three different articles analyzing aspects of Schoenfeld's undergraduate problem-solving instruction. The articles provide new detail and insight on a well-known and widely discussed course taught by Schoenfeld for many years. Understanding concepts - these articles feature a variety of methods used to examine students' understanding of the concept of a function and selected concepts from calculus. The conclusions presented offer unique and interesting perspectives on how students learn concepts. Understanding proofs - this section provides insight from a distinctly psychological framework. Researchers examine how existing practices can foster certain weaknesses. They offer ways to recognize and interpret students' proof behaviors and suggest alternative practices and curricula to build more powerful schemes. The section concludes with a focused look at using diagrams in the course of proving a statement.

Here the author of How to Solve It explains how to become a "good guesser." Marked by G. Polya's simple, energetic prose and use of clever examples from a wide range of human activities, this

two-volume work explores techniques of guessing, inductive reasoning, and reasoning by analogy, and the role they play in the most rigorous of deductive disciplines.

Second-year Mathematics for Secondary Schools

Selected Writings from the Journal of the Saskatchewan Mathematics Teachers' Society

General Mathematics

An Introduction to Algebra Upon the Inductive Method of Instruction (Classic Reprint)

Intellectual Arithmetic, Upon the Inductive Method of Instruction (Classic Reprint)

The Pragmatics of Mathematics Education

Drawing on philosophy of language and recent linguistic theory, Rowland surveys several approaches to classroom communication in mathematics. Are students intimidated by the nature of mathematics teaching? Many students appear fearful of voicing their understanding - is fear of error part of the linguistics of mathematics? The approaches explored here provide a rationale and a method for exploring and understanding speakers' motives in classroom mathematics talk. Teacher-student interactions in mathematics are analysed, and this provides a toolkit that teachers can use to respond to the intellectual vulnerability of their students.

In his long-awaited new edition of Philosophy of Mathematics, James Robert Brown tackles important new as well as enduring questions in the mathematical sciences. Can pictures go beyond being merely suggestive and actually prove anything? Are mathematical results certain? Are experiments of any real value? This clear and engaging book takes a unique approach, encompassing non-standard topics such as the role of visual reasoning, the importance of notation, and the place of computers in mathematics, as well as traditional topics such as formalism, Platonism, and constructivism. The combination of topics and clarity of presentation make it suitable for beginners and experts alike. The revised and updated second edition of Philosophy of Mathematics contains more examples, suggestions for further reading, and expanded material on several topics including a novel approach to the continuum hypothesis.

The Book Comprehensively Covers The Revised Syllabus Prescribed By The Institute Of Chartered Accountants Of India. The Coverage Is Divided Into Two Parts. The First Presents A Detailed Analysis Of The Basic Principles Of Modern Economics. The Second Part Highlights The Important Features Of The Business Environment In India. The Book Emphasises The Topics Of Contemporary Importance Introduced In The New Syllabus. These Include:-India And World Economy.-International Institutions For Globalisation.-Indias Recent Economic Policies. A Practical Approach Is Adopted Throughout The Book And The Various Concepts Are Illustrated Through Several Real Life Examples.

Being a Sequel to Intellectual Arithmetic

Approaches from Philosophy, Psychology and Cognitive Science

Mathematical Elegance

For Use in Elementary and Higher Schools (Classic Reprint)

Adapted to the Best Mode of Instruction in Primary Schools

The Teaching of Mathematics in Secondary Schools

Excerpt from Easy Lessons in Mental Arithmetic, Upon the Inductive Method: Adapted to the Best Mode of Instruction in Primary Schools In the preparation of these Lessons, the author has received valuable aid from teachers eminent in their profession, and familiar with the best modes of instruction in Primary Schools. The present edition is printed from new electrotype - plates, and contains a large number of slate exercises distributed throughout the book, and so arranged as not to interfere with the previous editions. 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.

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Russell's Philosophy of Logical Analysis, 1897-1905