

# The Pre-Service Teacher

## Mathematical Knowledge

- Curriculum knowledge
- Mathematical content knowledge
- Pedagogical content knowledge

## Mathematical Beliefs

- Beliefs about mathematics
- Beliefs about mathematics teaching
- Beliefs about mathematics learning
- Beliefs about the social context in relation to mathematics education

# Mathematical Knowledge

**Mary Leng, Alexander Paseau, Michael  
Potter**

## **Mathematical Knowledge:**

**The Nature of Mathematical Knowledge** San Diego Philip Kitcher Professor of Philosophy University of California, 1983-04-21 This book argues against the view that mathematical knowledge is a priori contending that mathematics is an empirical science and develops historically just as natural sciences do Kitcher presents a complete systematic and richly detailed account of the nature of mathematical knowledge and its historical development focusing on such neglected issues as how and why mathematical language changes why certain questions assume overriding importance and how standards of proof are modified

Mathematical Knowledge Mary Leng, Alexander Paseau, Michael

Potter, 2007-11-15 What is the nature of mathematical knowledge Is it anything like scientific knowledge or is it *sui generis* How do we acquire it Should we believe what mathematicians themselves tell us about it Are mathematical concepts innate or acquired Eight new essays offer answers to these and many other questions Written by some of the world's leading philosophers of mathematics psychologists and mathematicians Mathematical Knowledge gives a lively sense of the current state of debate in this fascinating field

*The Construction of New Mathematical Knowledge in Classroom Interaction* Heinz Steinbring, 2006-03-30

Mathematics is generally considered as the only science where knowledge is uniform universal and free from contradictions Mathematics is a social product a net of norms as Wittgenstein writes In contrast to other institutions traffic rules legal systems or table manners which are often internally contradictory and are hardly ever unrestrictedly accepted mathematics is distinguished by coherence and consensus Although mathematics is presumably the discipline which is the most differentiated internally the corpus of mathematical knowledge constitutes a coherent whole The consistency of mathematics cannot be proved yet so far no contradictions were found that would question the uniformity of mathematics Heintz 2000 p 11 The coherence of mathematical knowledge is closely related to the kind of professional communication that research mathematicians hold about mathematical knowledge In an extensive study Bettina Heintz Heintz 2000 proposed that the historical development of formal mathematical proof was in fact a means of establishing a communicable code of conduct which helped mathematicians make themselves understood in relation to the truth of mathematical statements in a coordinated and unequivocal way

The Origins of Mathematical Knowledge in Childhood

Catherine Sophian, 2017-09-25 This book examines the origins and development of children's mathematical knowledge It contrasts the widely held view that counting is the starting point for mathematical development with an alternative comparison of quantities position According to the comparison of quantities position the concept of number builds upon more basic concepts of equality inequality and less than and greater than relations which derive from comparisons between unenumerated quantities such as lengths The concept of number combines these basic comparative concepts with the concept of a unit of measure which allows one quantity to be described as a multiple of another Sophian examines these alternative accounts of children's developing mathematical knowledge in the light of research on children's counting on their

reasoning about continuous quantities such as length and area on the development of the concept of unit on additive and multiplicative reasoning and on knowledge about fractions In the closing chapters Sophian draws out the developmental and the educational implications of the research and theory presented Developmentally the comparison of quantities position undermines the idea that numerical knowledge develops through domain specific learning mechanisms in that it links numerical development both to physical knowledge about objects which is the starting point for the concept of unit and to the acquisition of linguistic number terms Instructionally the comparison of quantities perspective diverges from the counting first perspective in that it underscores the continuity between whole number arithmetic and fraction learning that stems from the importance of the concept of unit for both Building on this idea Sophian advances three instructional recommendations First instruction about numbers should always be grounded in thinking about quantities and how numbers represent the relations between them second instruction in the early years should always be guided by a long term perspective in which current objectives are shaped by an understanding of their role in the overall course of mathematics learning and third instruction should be directly toward promoting the acquisition of the most general mathematical knowledge possible The Origins of Mathematical Knowledge in Childhood is intended for researchers professionals and graduate students in developmental psychology educational psychology and mathematics education and as a supplementary text for advanced undergraduate courses in cognitive development educational psychology and mathematics education *Mathematical Knowledge in Teaching* Tim Rowland, Kenneth Ruthven, 2011-01-06 The quality of primary and secondary school mathematics teaching is generally agreed to depend crucially on the subject related knowledge of the teacher However there is increasing recognition that effective teaching calls for distinctive forms of subject related knowledge and thinking Thus established ways of conceptualizing developing and assessing mathematical knowledge for teaching may be less than adequate These are important issues for policy and practice because of longstanding difficulties in recruiting teachers who are confident and conventionally well qualified in mathematics and because of rising concern that teaching of the subject has not adapted sufficiently The issues to be examined in Mathematical Knowledge in Teaching are of considerable significance in addressing global aspirations to raise standards of teaching and learning in mathematics by developing more effective approaches to characterizing assessing and developing mathematical knowledge for teaching *Mathematical Knowledge* Mark Steiner, 1975 **Constructing Mathematical Knowledge** Paul Ernest, 2016-12-07 This book provides a panorama of complimentary and forward looking perspectives on the learning of mathematics and epistemology from some of the leading contributors to the field It explores constructivist and social theories of learning and discusses the role of the computer in the light of these theories It brings analyses from psychoanalysis Hermeneutics and other perspectives to bear on the issues of mathematics and learning It enquires into the nature of enquiry itself and an important emergent theme is the role of language Finally it relates the history of mathematics to its teaching and learning The book both surveys current research

and indicates orientations for fruitful work in the future

### **The Growth of Mathematical Knowledge**

Emily Grosholz,Herbert Breger,2013-04-17 Mathematics has stood as a bridge between the Humanities and the Sciences since the days of classical antiquity For Plato mathematics was evidence of Being in the midst of Becoming garden variety evidence apparent even to small children and the unphilosophical and therefore of the highest educational significance In the great central similes of The Republic it is the touchstone of intelligibility for discourse and in the Timaeus it provides in an oddly literal sense the framework of nature insuring the intelligibility of the material world For Descartes mathematical ideas had a clarity and distinctness akin to the idea of God as the fifth of the Meditations makes especially clear Cartesian mathematical constructions as well as objects envisioned by the soul in the Principles the work of the physicist who provides a quantified account of the machines of nature hovers between description and constitution For Kant mathematics reveals the possibility of universal and necessary knowledge that is neither the logical unpacking of concepts nor the record of perceptual experience In the Critique of Pure Reason mathematics is one of the transcendental instruments the human mind uses to apprehend nature and by apprehending to construct it under the universal and necessary laws of Newtonian mechanics

**Mathematical Essays and Recreations** Hermann Schubert,1899 **Middle Grade Teachers' Mathematical Knowledge and Its Relationship to Instruction** Judith Sowder,Randolph A. Philipp,Barbara E. Armstrong,Bonnie P. Schappelle,1998-07-16 The outcome of a two year investigation this book shows how teachers' understanding of the mathematics of number quantity and proportion influences how they teach and what their students learn of the concepts skills and reasoning associated with this mathematical domain of knowledge It grew out of the recognition of the need to understand the complexities of helping teachers reconceptualize the mathematics they teach and the resulting effects in their classrooms The book includes case studies of five teachers from different types of school settings illustrating changes in the teachers' teaching methods expectations of students and beliefs about the role of professional development

A Study of Mathematical Education Including the Teaching of Arithmetic Benchara Branford,1908 Mathematical Philosophy Cassius Jackson Keyser,1922 *Report of the Mathematical Association Committee on the Teaching of Mathematics in Public & Secondary Schools* ... Mathematical Association. Committee on the Teaching of Mathematics in Public and Secondary Schools,1928

**The Mathematics Teacher** ,1909 Mathematical Knowledge, Objects and Applications Carl Posy,Yemima Ben-Menahem,2023-05-05 This book provides a survey of a number of the major issues in the philosophy of mathematics such as ontological questions regarding the nature of mathematical objects epistemic questions about the acquisition of mathematical knowledge and the intriguing riddle of the applicability of mathematics to the physical world Some of these issues go back to the nascent years of mathematics itself others are just beginning to draw the attention of scholars In addressing these questions some of the papers in this volume wrestle with them directly while others use the writings of philosophers such as Hume and Wittgenstein to approach their problems by way of interpretation and critique

The contributors include prominent philosophers of science and mathematics as well as promising younger scholars The volume seeks to share the concerns of philosophers of mathematics with a wider audience and will be of interest to historians mathematicians and philosophers alike     *Mathematical Knowledge for Primary Teachers* Andrew Davis, Maria Goulding, Jennifer Suggate, 2017-02-17 Now in its fifth edition the best selling text *Mathematical Knowledge for Primary Teachers* provides trainee teachers with clear information about the fundamental mathematical ideas taught in primary schools With rigorous and comprehensive coverage of all the mathematical knowledge primary teachers need the text goes beyond rules and routines to help readers deepen their understanding of mathematical ideas and increase their confidence in teaching these ideas The book has been updated to incorporate changes in the National Curriculum and the associated tests In addition Chapter 1 has been expanded to discuss mathematical understanding in the light of the challenges posed by the current changes These include the re introduction of traditional calculation methods for multiplication and division the early coverage of abstract fractions calculations and much more Features include Check questions to test the reader's understanding Challenges to increase teachers confidence and stretch their mathematical abilities Links with the classroom to emphasise the relevance of ideas to the classroom context Straightforward coverage from theory to practice for all aspects of the Mathematics Framework The book is accompanied by eResources which contains further visual activities and support designed to scaffold and support the reader's own understanding Essential reading for all practising and trainee primary teachers this book is ideal for those who wish to increase their mathematical understanding and confidence in presenting mathematics in the classroom     **The American Mathematical Monthly**, 1906 Includes section Recent publications

*The Journal of the Indian Mathematical Society*, 1916 Vols for 1923 32 include separately paged sections Notes and questions and Progress report     **Kant's Theory of Knowledge** Harold Arthur Prichard, 1909     **B.A. Pure Mathematics** London univ. exam. papers, 1893

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