

A dissertation

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Mathematics Teacher's Experience with Flipped Learning: A Phenomenographic
Approach

by

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The Origin Of Arithmetic Skills A Phenomenographic Approach

**Bharath Sriraman, Simon
Goodchild, Christer Bergsten, Gudbjorg
Palsdottir, Lenni Haapasalo, Bettina
Dahl Søndergaard**

The Origin Of Arithmetic Skills A Phenomenographic Approach:

The Origin of Arithmetic Skills Dagmar Neuman, 1987 *Becoming a Mathematician* Leigh N Wood, Peter Petocz, Anna Reid, 2012-02-13 This book considers the views of participants in the process of becoming a mathematician that is the students and the graduates This book investigates the people who carry out mathematics rather than the topics of mathematics Learning is about change in a person the development of an identity and ways of interacting with the world It investigates more generally the development of mathematical scientists for a variety of workplaces and includes the experiences of those who were not successful in the transition to the workplace as mathematicians The research presented is based on interviews observations and surveys of students and graduates as they are finding their identity as a mathematician The book contains material from the research carried out in South Africa Northern Ireland Canada and Brunei as well as Australia **The First Sourcebook on Nordic Research in Mathematics Education** Bharath Sriraman, Simon

Goodchild, Christer Bergsten, Gudbjorg Palsdottir, Lenni Haapasalo, Bettina Dahl Søndergaard, 2010-09-01 The First Sourcebook on Nordic Research in Mathematics Education Norway Sweden Iceland Denmark and contributions from Finland provides the first comprehensive and unified treatment of historical and contemporary research trends in mathematics education in the Nordic world The book is organized in sections coordinated by active researchers in mathematics education in Norway Sweden Iceland Denmark and Finland The purpose of this sourcebook is to synthesize and survey the established body of research in these countries with findings that have influenced ongoing research agendas informed practice framed curricula and policy The sections for each country also include historical articles in addition to exemplary examples of recently conducted research oriented towards the future The book will serve as a standard reference for mathematics education researchers policy makers practitioners and students both in and outside the Nordic countries *Mathematics Education in the Early Years* Martin Carlsen, Ingvald Erfjord, Per Sigurd Hundeland, 2020-03-13 This book gives insights in the vivid research area of early mathematics learning The collection of selected chapters mirrors the research topics presented at the fourth POEM conference in May 2018 Thematically the volume reflects the importance of this evolving area of research which has begun to attract attention in the spheres of education and public policy due to increased interest in early years learning The research foci of the chapters comprise children's mathematical reasoning early years mathematics teaching and the role of parents for children's mathematical development The 2018 conference included a wider range of researchers than previous years **Transforming Children's Mathematics Education** Leslie P. Steffe, Terry

Wood, 2013-11-05 Eminent scholars from around the globe gathered to discuss how educational systems would change if the prevailing principles of constructivism were applied to three major aspects of those systems knowledge and learning communication and environment This volume provides documentation of the proceedings of this important meeting the Early Childhood Action Group of the Sixth International Congress on Mathematics Education This international assembly

representing such diverse disciplines as mathematics and math education epistemology philosophy cognitive science psycholinguistics and science education is the first to examine early childhood mathematics education from constructivist and international perspectives in addition to formulating recommendations for future work in the field International Handbook of Mathematics Education Alan Bishop, M.A. (Ken) Clements, Christine Keitel-Kreidt, Jeremy Kilpatrick, Colette Laborde, 2012-12-06 ALAN J BISHOP Monash University Clayton Victoria Australia RATIONALE Mathematics Education is becoming a well documented field with many books journals and international conferences focusing on a variety of aspects relating to theory research and practice That documentation also reflects the fact that the field has expanded enormously in the last twenty years At the 8th International Congress on Mathematics Education ICME in Seville Spain for example there were 26 specialist Working Groups and 26 special ist Topic Groups as well as a host of other group activities In 1950 the Commission Internationale pour l Etude et l Amelioration de l Enseignement des Mathematiques CIEAEM was formed and twenty years ago another active group the International Group for the Psychology of Mathematics Education PME began at the third ICME at Karlsruhe in 1976 Since then several other specialist groups have been formed and are also active through regular conferences and publications as documented in Edward Jacobsen s Chapter 34 in this volume *The Emergence of Mathematical Meaning* Paul Cobb, Heinrich Bauersfeld, 2012-12-06 This book grew out of a five year collaboration between groups of American and German mathematics educators The central issue addressed accounting for the messiness and complexity of mathematics learning and teaching as it occurs in classroom situations The individual chapters are based on the view that psychological and sociological perspectives each tell half of a good story To unify these concepts requires a combined approach that takes individual students mathematical activity seriously while simultaneously seeing their activity as necessarily socially situated Throughout their collaboration the chapter authors shared a single set of video recordings and transcripts made in an American elementary classroom where instruction was generally compatible with recent reform recommendations As a consequence the book is much more than a compendium of loosely related papers The combined approach taken by the authors draws on interactionism and ethnomethodology Thus it constitutes an alternative to Vygotskian and Soviet activity theory approaches The specific topics discussed in individual chapters include small group collaboration and learning the teacher s practice and growth and language discourse and argumentation in the mathematics classroom This collaborative effort is valuable to educators and psychologists interested in situated cognition and the relation between sociocultural processes and individual psychological processes **International Perspectives on Teaching and Learning Mathematics with Virtual Manipulatives** Patricia S. Moyer-Packenham, 2016-06-21 This book explores terminology frameworks and research being conducted worldwide on virtual manipulatives It brings together international authors who provide their perspectives on virtual manipulatives in research and teaching By defining terminology explaining conceptual and theoretical frameworks and reporting research the authors provide a comprehensive foundation on the study

and use of virtual manipulatives for mathematics teaching and learning This foundation provides a common way for researchers to communicate about virtual manipulatives and build on the major works that have been conducted on this topic By discussing these big ideas the book advances knowledge for future research on virtual manipulatives as these dynamic tools move from computer platforms to hand held touch screen and augmented platforms *Handbook of Design Research Methods in Education* Anthony E. Kelly, Richard A. Lesh, John Y. Baek, 2014-07-16 This Handbook presents the latest thinking and current examples of design research in education Design based research involves introducing innovations into real world practices as opposed to constrained laboratory contexts and examining the impact of those designs on the learning process Designed prototype applications e g instructional methods software or materials and the research findings are then cycled back into the next iteration of the design innovation in order to build evidence of the particular theories being researched and to positively impact practice and the diffusion of the innovation The Handbook of Design Research Methods in Education the defining book for the field fills a need in how to conduct design research by those doing so right now The chapters represent a broad array of interpretations and examples of how today s design researchers conceptualize this emergent methodology across areas as diverse as educational leadership diffusion of innovations complexity theory and curriculum research This volume is designed as a guide for doctoral students early career researchers and cross over researchers from fields outside of education interested in supporting innovation in educational settings through conducting design research

A Journey in Mathematics Education Research Erna Yackel, Koeno Gravemeijer, Anna Sfard, 2010-11-30 Our objective is to publish a book that lays out the theoretical constructs and research methodologies within mathematics education that have been developed by Paul Cobb and explains the process of their development We propose to do so by including papers in which Cobb introduced new theoretical perspectives and methodologies into the literature each preceded by a substantive accompanying introductory paper that explains the motivation rationale for developing the new perspectives and or methodologies and the processes through which they were developed and Cobb s own retrospective comments In this way the book provides the reader with heretofore unpublished material that lays out in considerable detail the issues and problems that Cobb has confronted in his work that from his viewpoint required theoretical and methodological shifts advances and provides insight into how he has achieved the shifts advances The result will be a volume that in addition to explaining Cobb s contributions to the field of mathematics education also provides the reader with insight into what is involved in developing an aggressive and evolving research program When Cobb confronts problems and issues in his work that cannot be addressed using his existing theories and frameworks he looks to other fields for theoretical inspiration A critical feature of Cobb s work is that in doing so he consciously appropriates and adapts ideas from these other fields to the purpose of supporting processes of learning and teaching mathematics He does not simply accept the goals or motives of those fields As a result Cobb reconceptualizes and reframes issues and concepts so that they result in new ways of

investigating exploring and explaining phenomena that he encounters in the practical dimensions of his work which include working in classrooms with teachers and with school systems The effect is that the field of mathematics education is altered Other researchers have found his new ways of looking useful to them And they in turn adapt these ideas for their own use The complexity of many of the ideas that Cobb has introduced into the field of mathematics education can lead to a multiplicity of interpretations by practitioners and by other researchers based on their own experiential backgrounds Therefore by detailing the development of Cobb's work including the tensions involved in coming to grips with and reconciling apparently contrasting perspectives the book will shed additional light on the processes of reconceptualization and thus help the reader to understand the reasons mechanisms and outcomes of researchers' constant pursuit of new insights

Pathways To Number Jacqueline Bideaud, Claire Meljac, Jean-Paul Fischer, 2013-03-07 This volume celebrates the 50th anniversary of the famous and influential work of Jean Piaget and Alina Szeminska *The Child's Conception of Number* It is a tribute to those two authors as well as to the entire Geneva school that pioneered the genetic study of cognitive structures in children Dealing with the process of the child's construction of the notion of number a very important subject for the child as well as for the teacher the researcher and the practicing psychologist it summarizes the progress that has been made and outlines new research directions in this area The book is a compilation of the work of the foremost international researchers in this area and includes a wide spectrum of viewpoints and schools of thought It also introduces several new authors from Europe including students of Piaget to the American academic community

Special Education in the Early Years Heidi Harju-Luukkainen, Natallia Bahdanovich Hanssen, Christel Sundqvist, 2022-04-21 This book explores policies and practices in special education in the early years highlighting shared enablers and barriers It examines research policies and practices from different Nordic countries and discusses the theory and empirical data underlying the research It looks at specific issues including gifted children social inequality and exclusion teaching children with autism inclusive practice language and emotions The book offers critical perspectives highlights potential developmental objects and gives recommendations for further research as well as policy and practice The book features many aspects of the so called Nordic model the economic and social policies common to the Nordic Countries Denmark Finland Norway and Sweden The findings provide important insights into the Nordic model and advance the understanding of relevant issues facing the Nordic countries

Learning and Awareness Ference Marton, Shirley Booth, 2013-02-01 This book stems from more than 25 years of systematic research into the experience of learning undertaken by a research team trying to account for the obvious differences between more or less successful instances of learning in educational institutions The book offers an answer in terms of the discovery of critical differences in the structure of the learner's awareness and critical differences in the meaning of the learner's world The authors offer a detailed account of the empirical findings that give rise to theoretical insights and discuss the particular form of qualitative research that has been employed and developed The form of learning that is the object of study is considered to

be the most fundamental form namely a change in the learner's way of seeing experiencing handling and understanding aspects of the world The need for rigorous analysis of learning of specific subject matter the individual construction of knowledge and its social and cultural embeddedness the defining features of rival approaches into research on learning are reconciled from the approach adopted here into an intertwined and whole experience of learning The learner's experience is always one of learning something in some way and in some context by holding the learner's experience of learning as the focus of study throughout and not studying the learning of the content and the acts and the context as separate and distinct focuses the content the act and the context remain united as constituents of the learner's experience By empirically revealing critical differences in the ways of experiencing these aspects of learning and by developing a theoretical framework for the dynamics through which change comes about in the learner's awareness this book gradually leads the reader to a powerful new view of learning Equipped with the analytical tools and conceptual apparatus to be found in this book the reader will be empowered to learn and to assist others to learn by creating environments conducive to the most fundamental form of learning experiencing aspects of the world in new ways

Entrepreneurial Education Kristiina Erkkilä, 2000 The study finds that arguments supporting or opposing entrepreneurial education are highly contextual According to the literature studied entrepreneurship education is more directly focused upon small business and entrepreneurship whereas enterprise education is aimed at the development of enterprising behavior skills and attributes not only for business use Furthermore debates on entrepreneurial education are more complex than shown in previous studies The debate in the United States is more diverse and practice driven than those are in the United Kingdom and Finland In addition the discourse of each country has unique categories The book includes suggestions for future research and gives recommendations particularly for Finnish practice which could also benefit other societies just starting their path in entrepreneurial education The study serves as a comprehensive literature source for future interests and research

BOOK JACKET International Handbook of Research on Conceptual Change Stella Vosniadou, 2009-05-07 The study of conceptual change traces its heritage to the notions of paradigm networks of shared beliefs concepts practices and paradigm shift made famous by Thomas Kuhn in his book *The Structure of Scientific Revolutions* Kuhn's work was quickly linked to developmental psychology how knowledge develops and to science education teaching big new ideas This book is the first comprehensive review of the conceptual change movement and of the impressive research it has spawned on how knowledge develops and can be taught in different content areas Because of its interdisciplinary focus chapter authors were instructed to write in a manner comprehensible to researchers and students from different fields The *International Handbook of Research on Conceptual Change* consists of twenty seven chapters that clarify the nature of conceptual change research describes its most important findings and demonstrates their importance for education It is organized into six sections that include detailed discussions of key theoretical and methodological issues the roots of conceptual change research in the philosophy and history of science

mechanisms of conceptual change and learner characteristics It also contains chapters that describe conceptual change research in the content areas such as physics astronomy biology medicine and health and history A particular focus is given to students difficulties in learning more advanced and counter intuitive concepts **Situated Cognition** David Kirshner,James A. Whitson,2021-12-16 This book is a result of a symposium at a recent annual meeting of the American Educational Research Association that explored foundational issues relative to situated cognition theory Its chapters contribute to discourse about repositioning situated cognition theory within the broader supporting disciplines and to resolving the problematics addressed within the book There is a cumulative vision to the book its theme is that the notion of the individual in situated cognition theory needs to be fundamentally reformulated No theoretical reconfiguration of the social world or of social practices can overcome an individual cast in the dualist tradition This reformulation probes the physiological psychoanalytic and semiotic constitution of persons Chapters authors cover a wide range of topics including transfer of training arguing that traditional cognitive psychology has found precious little evidence of people s ability to apply knowledge gained in one context to the problems encountered in another ecosocial systems a new object of inquiry for situated cognition theory in which the primary units of analysis are not things or people but processes and practices how linkages between discursive practices are manifested as semiotic chaining of signifiers for individuals engaged in everyday activities at home or at school how the ability to function in ways that are consistent with logic emerges not through reflective abstraction on actions but through an enhanced sense of agency as more responsible roles are adopted in daily life practices the mutual constitution of social and individual knowledge familiar terms and concepts normally available through linguistic labels are cultural models to be distinguished from the variegated and hidden mid level meanings that reflect their situated uses in social activity the material neurological substrate through which cultural models and mid level meanings emerge and how learning environments can be structured to take advantage of the perceptual underpinnings of cognition

Necessary Conditions of Learning Ference Marton,2014-06-20 Necessary Conditions of Learning presents a research approach phenomenography and a theory the variation theory of learning introduced and developed by Ference Marton and taken up by his wide and varied following around the world together with their practical applications in educational contexts Reflecting Marton s whole lifetime s work the unique and significant contribution of this book is to offer an evidence based answer to the questions How do we make novel meanings our own and How do we learn to see things in more powerful ways The presentation makes use of hundreds of empirical studies carried out in Europe and Asia which build on the theory The line of reasoning and the way in which the examples are put together is consistent with the theory it is both presented and applied The main argument is that in order to learn we have to discern and to discern the intended ideas we must be presented with carefully structured variation against a background of invariance We then go through processes of contrast generalization and fusion in order to make sense These insights form a practical framework for those who design teaching

and teaching materials Necessary Conditions of Learning is a major original work for which scholars of pedagogical theory have been waiting a long time *Transformative Teacher Research*, 2019-02-18 The aim of this book is to bring teacher research to the centre of attention in educational research Knowledge generated by researching teachers and teacher researchers often in collaboration with university researchers identifying new and innovative research methodologies and theories feeds directly back into theorising practice and the practice of theory that is necessary to improve student learning This edited volume is unique in that it details diverse teacher research practices and partnerships across a diversity of cultural settings from Sweden Turkey South Africa Cyprus Singapore Hong Kong China Australia and the UK In this volume 19 internationally acknowledged researchers from nine different countries draw on and develop a new wave of theory and practice for transformative teaching and learning Themes explored include contributions of the latest emerging theories and research approaches types models of university school partnerships and teacher research communities which build change and sustain educational reform empirical findings and evidence based benefits from teacher research and professional learning critical policy research in teacher research innovative approaches to course designs with an aim to transform understanding of teaching and teacher research *Threshold Concepts in Practice* Ray Land, Jan H. F. Meyer, Michael T. Flanagan, 2016-07-09 Threshold Concepts in Practice brings together fifty researchers from sixteen countries and a wide variety of disciplines to analyse their teaching practice and the learning experiences of their students through the lens of the Threshold Concepts Framework In any discipline there are certain concepts the jewels in the curriculum whose acquisition is akin to passing through a portal Learners enter new conceptual and often affective territory Previously inaccessible ways of thinking or practising come into view without which they cannot progress and which offer a transformed internal view of subject landscape or even world view These conceptual gateways are integrative exposing the previously hidden interrelatedness of ideas and are irreversible However they frequently present troublesome knowledge and are often points at which students become stuck Difficulty in understanding may leave the learner in a liminal state of transition a betwixt and between space of knowing and not knowing where understanding can approximate to a form of mimicry Learners navigating such spaces report a sense of uncertainty ambiguity paradox anxiety even chaos The liminal space may equally be one of awe and wonderment Thresholds research identifies these spaces as key transformational points crucial to the learner's development but where they can oscillate and remain for considerable periods These spaces require not only conceptual but ontological and discursive shifts This volume the fourth in a tetralogy on Threshold Concepts discusses student experiences and the curriculum interventions of their teachers in a range of disciplines and professional practices including medicine law engineering architecture and military education Cover image Detail from Eve offering the apple to Adam in the Garden of Eden and the serpent c 1520 25 Lucas Cranach the Elder 1472 1553 Bridgeman Images All rights reserved

Managing Understanding in Organizations Jorgen Sandberg, Axel Targama, 2007-01-09 An excellent and much

needed contribution to the management literature Gareth Morgan Trough accurate examples and instructive accounts of what constitutes understanding at work the Author leads us to the core link between understanding and managerial practicing It is deeply informative often witty and always elegant Silvia Gherardi Research Unit on Communication Organizational Learning and Aesthetics dipartimento di sociologia e ricerca sociale The book provides an interesting accessible and important contribution to the interpretive understanding of management and leadership and clearly shows its relevance also for practitioners Mats Alvesson Bringing a fresh perspective to the evaluation of management problems this book draws upon interpretative research and builds upon existing interpretative studies to scrutinise the influence managers have on employees understanding It considers how managers use ideas and visions to frame their employees internalised understanding of the external rules and instructions that govern their work The book brings an interpretative perspective to the question of individual and group competence and look at how this is linked with understanding Throughout Managing Understanding in Organizations refers to international case studies and considers the cross cultural impact on management and understanding at work

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