
**CONCEPTUAL AND
PROCEDURAL KNOWLEDGE:
THE CASE OF MATHEMATICS**

**Edited by
James Hiebert**

Conceptual And Procedural Knowledge The Case Of Mathematics

Mark Steyvers



Conceptual And Procedural Knowledge The Case Of Mathematics:

Conceptual and Procedural Knowledge James Hiebert, 2013-08-21 First Published in 1986 This book is intended for those people who are interested in how mathematics is learned It is intended especially for those who are interested in the mental processes involved in becoming mathematically competent and the mental processes that inhibit such competency from developing The volume opens with an overview of the issue and then traces the relationships between conceptual and procedural knowledge in mathematics from preschool days through the years of formal schooling Mathematics educators and cognitive psychologists from a variety of perspectives contribute theoretical arguments and empirical data to illuminate the nature of the relationships and in turn the nature of mathematics learning

Conceptual and Procedural Knowledge James Hiebert, 1986 Encyclopedia of Education and Human Development Stephen J. Farenga, Daniel Ness, 2015-07-17

This comprehensive and exhaustive reference work on the subject of education from the primary grades through higher education combines educational theory with practice making it a unique contribution to the educational reference market Issues related to human development and learning are examined by individuals whose specializations are in diverse areas including education psychology sociology philosophy law and medicine The book focuses on important themes in education and human development Authors consider each entry from the perspective of its social and political conditions as well as historical underpinnings The book also explores the people whose contributions have played a seminal role in the shaping of educational ideas institutions and organizations and includes entries on these institutions and organizations This work integrates numerous theoretical frameworks with field based applications from many areas in educational research

Mathematics Learning in Early Childhood National Research Council, Division of Behavioral and Social Sciences and Education, Center for Education, Committee on Early Childhood Mathematics, 2009-11-13 Early childhood mathematics is vitally important for young children's present and future educational success Research demonstrates that virtually all young children have the capability to learn and become competent in mathematics Furthermore young children enjoy their early informal experiences with mathematics Unfortunately many children's potential in mathematics is not fully realized especially those children who are economically disadvantaged This is due in part to a lack of opportunities to learn mathematics in early childhood settings or through everyday experiences in the home and in their communities Improvements in early childhood mathematics education can provide young children with the foundation for school success Relying on a comprehensive review of the research *Mathematics Learning in Early Childhood* lays out the critical areas that should be the focus of young children's early mathematics education explores the extent to which they are currently being incorporated in early childhood settings and identifies the changes needed to improve the quality of mathematics experiences for young children This book serves as a call to action to improve the state of early childhood mathematics It will be especially useful for policy makers and practitioners those who work directly with children and their families in shaping the

policies that affect the education of young children

The Math We Need to Know and Do in Grades 6–9 Pearl Gold Solomon, 2007-05-24 Expertly connects state and national standards to examples from our curriculum With this text you can be sure that you are teaching what you are expected to teach Kimberly Puckett Math Teacher Tri Village Junior Senior High School New Madison OH An excellent practical and well organized resource for planning math lessons that address content standards found in all state curriculum frameworks Anne Roede Giddings Assistant Superintendent Ansonia Public Schools CT Does a wonderful job of connecting mathematical objectives with instructional techniques and real world applications Makes a valuable contribution to the field by integrating multiple resources and linking content and pedagogy Edward C Nolan Mathematics Department Chair Albert Einstein High School Kensington MD A simple to follow matrix helps you align activities problems and assessments with NCTM standards In a new edition of her standards based math workbook award winning author Pearl Gold Solomon covers essential concepts and skills as defined by the National Council of Teachers of Mathematics for learners in middle schools Designed as a comprehensive resource for planning curriculum instruction and assessment The Math We Need to Know and Do in Grades 6–9 Second Edition offers a quick reference simple to follow matrix covering the sequential and specific development of concepts across grade levels Responding to the current climate of accountability and new findings on how the brain works and how students learn this updated and expanded handbook covers content standards and provides guidelines for formal and informal assessments Teachers and instructional leaders will find practical tools that include Concept statements and scaffolds for building student understanding Suggestions for working with manipulatives calculators Web sites and educational software and graphics programs Ready to use sample activities problems and assessments Ideal for teachers as well as math coaches curriculum directors and assessment specialists this invaluable text presents authoritative and detailed guidance for strengthening curriculum development and instruction

Concept Mapping in Mathematics Karoline Afamasaga-Fuata'i, 2009-04-21 Concept Mapping in Mathematics Research into Practice is the first comprehensive book on concept mapping in mathematics It provides the reader with an understanding of how the meta cognitive tool namely hierarchical concept maps and the process of concept mapping can be used innovatively and strategically to improve planning teaching learning and assessment at different educational levels This collection of research articles examines the usefulness of concept maps in the educational setting with applications and examples ranging from primary grade classrooms through secondary mathematics to pre service teacher education undergraduate mathematics and post graduate mathematics education A second meta cognitive tool called vee diagrams is also critically examined by two authors particularly its value in improving mathematical problem solving Thematically the book flows from a historical development overview of concept mapping in the sciences to applications of concept mapping in mathematics by teachers and pre service teachers as a means of analyzing mathematics topics planning for instruction and designing assessment tasks including applications by school and university students as learning and review tools This book

provides case studies and resources that have been field tested with school and university students alike The findings presented have implications for enriching mathematics learning and making problem solving more accessible and meaningful for students The theoretical underpinnings of concept mapping and of the studies in the book include Ausubel s cognitive theory of meaningful learning constructivist and Vygotskian psychology to name a few There is evidence particularly from international studies such as PISA and TIMSS and mathematics education research which suggest that students mathematical literacy and problem solving skills can be enhanced through students collaborating and interacting as they work discuss and communicate mathematically This book proposes the meta cognitive strategy of concept mapping as one viable means of promoting communicating and explicating students mathematical thinking and reasoning publicly in a social setting e g mathematics classrooms as they engage in mathematical dialogues and discussions Concept Mapping in Mathematics Research into Practice is of interest to researchers graduate students teacher educators and professionals in mathematics education

The Math We Need to Know and Do in Grades PreK–5 Pearl Gold Solomon, 2006-06-14 I will be quoting many of the key points presented in the book often to others in my school Carol Amos Teacher Leader Mathematics Coordinator Twinfield Union School Plainfield VT A wonderful resource for readers who will be developing curriculum and lessons Each content branch is clearly explained and has examples for easy development Professionals will be able to easily build further examples Joseph DiGarbo Teacher Mohegan Elementary School Uncasville CT Makes a distinct contribution to the field of mathematics explaining in clear language the relevance of the various concepts as they apply to elementary mathematics curricula Melissa Miller Teacher Randall G Lynch Middle School Farmington AR Strengthen your math instruction and assessments with these standards based learner friendly tools This updated and expanded new edition provides elementary math teachers with a step by step approach to planning standards based curriculum instruction and now assessment too Pearl Gold Solomon covers the essential concepts and skills defined by the National Council of Teachers of Mathematics NCTM using a simple to follow matrix that aligns activities and problems for the classroom with specific NCTM standards and then provides appropriate assessments for each An essential handbook for grades PreK 5 it provides detailed guidance sample activities problems and assessments all grade appropriate and ready to use Highlights include a rubric test specifications other assessment resources suggestions for working with manipulatives calculators educational software and graphics programs and Web sites Teachers will find this invaluable when they Review their own knowledge of mathematical concepts Plan curriculum for a specific lesson grade level or an entire school Respond to individual conceptual or procedural challenges among their learners Assess student knowledge both formally and informally As always Solomon turns confusing pedagogy into accessible instruction giving new teachers clarity and experienced teachers a base that can easily be built upon This is an indispensable resource for instructional leaders district planners staff developers math coaches and individual teachers seeking to enhance their instructional repertoire

Primary Teaching Catherine Carden, 2018-11-15 This

book includes full coverage of the content of professional studies modules and goes beyond to support trainees on placements and in their learning on the course

Understanding and Teaching the Intuitive Mind Bruce Torff, Robert J. Sternberg, 2001-01-01 The intuitive mind is a powerful force in the classroom and often an undetected one Intuitive conceptions knowledge or knowledge structures that individuals acquire and use largely without conscious reflection or explicit instruction sometimes work to facilitate learning in the classroom and other contexts But learning may also be impeded by intuitive conceptions and they can be difficult to dislodge as needed The literatures in psychology and education include a large and diverse body of theory and research on intuitive conceptions but this work is limited in some respects This volume contributes in four ways to overcome these limitations Understanding and Teaching the Intuitive Mind Student and Teacher Learning pulls together diverse theoretical and methodological approaches to the origin structure function and development of intuitive conceptions explores a diversity of academic disciplines paying equal attention not only to mathematics and science the fields in which intuitive concepts have been studied most extensively but also to the social sciences arts and humanities explicitly links theory and research to educational implications and classroom applications and focuses not only on students intuitive conceptions but also on teachers intuitive beliefs about learning and teaching Although the viewpoints of the contributors are diverse they share the belief that educational practices have much to gain by systematic studies of the intuitive learner and teacher This volume offers state of the art research based information and support for psychologists teacher educators educational administrators teachers prospective teachers and others who seek to develop educational practices that are cognizant of and responsive to the intuitive conceptions of students and teachers

How Students Learn National Research Council, Division of Behavioral and Social Sciences and Education, Committee on How People Learn, A Targeted Report for Teachers, 2004-12-23 How do you get a fourth grader excited about history How do you even begin to persuade high school students that mathematical functions are relevant to their everyday lives In this volume practical questions that confront every classroom teacher are addressed using the latest exciting research on cognition teaching and learning How Students Learn History Mathematics and Science in the Classroom builds on the discoveries detailed in the bestselling How People Learn Now these findings are presented in a way that teachers can use immediately to revitalize their work in the classroom for even greater effectiveness Organized for utility the book explores how the principles of learning can be applied in teaching history science and math topics at three levels elementary middle and high school Leading educators explain in detail how they developed successful curricula and teaching approaches presenting strategies that serve as models for curriculum development and classroom instruction Their recounting of personal teaching experiences lends strength and warmth to this volume The book explores the importance of balancing students knowledge of historical fact against their understanding of concepts such as change and cause and their skills in assessing historical accounts It discusses how to build straightforward science experiments into true understanding of

scientific principles And it shows how to overcome the difficulties in teaching math to generate real insight and reasoning in math students It also features illustrated suggestions for classroom activities How Students Learn offers a highly useful blend of principle and practice It will be important not only to teachers administrators curriculum designers and teacher educators but also to parents and the larger community concerned about children s education

The Enigmatic Realm of **Conceptual And Procedural Knowledge The Case Of Mathematics**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Conceptual And Procedural Knowledge The Case Of Mathematics** a literary masterpiece penned with a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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Conceptual And Procedural Knowledge The Case Of Mathematics Introduction

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