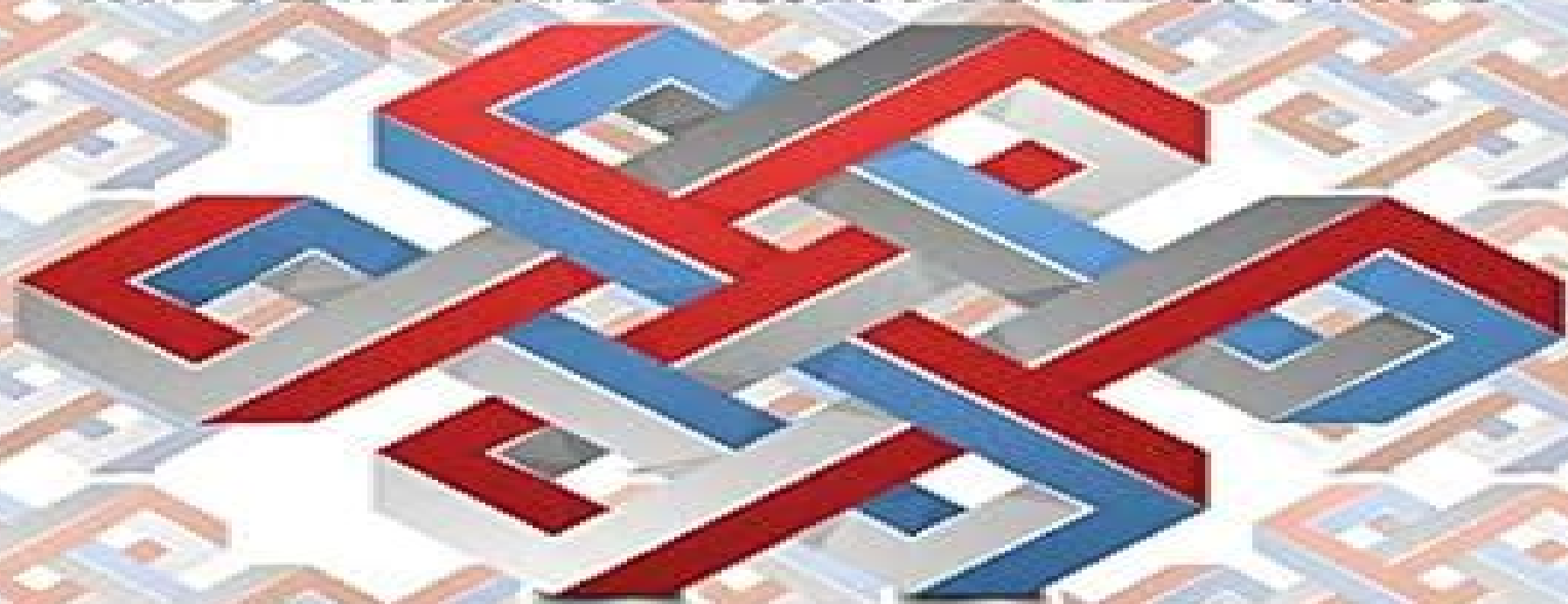


Mathematical Understanding for Secondary Teaching

A FRAMEWORK AND CLASSROOM-BASED SITUATIONS



Edited by

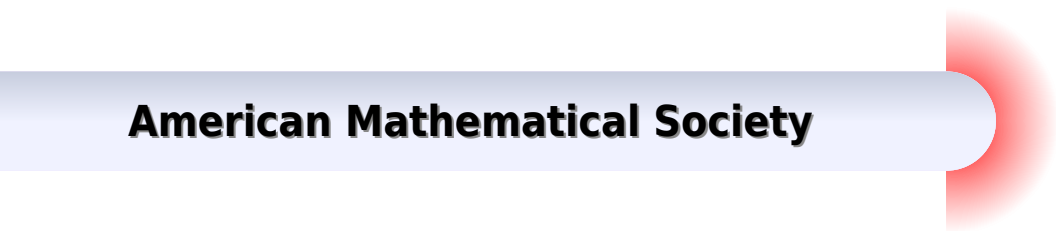
M. Kathleen Heid
Patricia S. Wilson
with Glendon W. Blume



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Mathematical Understanding For Secondary Teaching A Framework And Classroom Based Situations

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Mathematical Understanding For Secondary Teaching A Framework And Classroom Based Situations:

Mathematical Understanding for Secondary Teaching M. Kathleen Heid, Patricia S. Wilson, Glendon W. Blume, 2015-12-01

A perennial discussion about teacher development is the optimal content background for teachers. In recent years that discussion has taken center stage in the work of mathematics education researchers, mathematicians, mathematics professional developers, and mathematics education policymakers. Much of the existing and prior work in this area has been directed toward mathematical knowledge for teaching at the elementary level. The work described in this volume takes a sometimes neglected approach focusing on the dynamic nature of mathematical understanding rather than on a stable description of mathematical knowledge and on mathematics for secondary teaching rather than mathematics for teaching at the elementary level. The work reported in *Mathematical Understanding for Secondary Teaching: A Framework and Classroom Based Situations* is a practice-based response to the question of what mathematical understandings secondary teachers could productively use in their teaching. For each of more than 50 events, our team of almost 50 mathematics educators who were experienced mathematics teachers developed descriptions of the mathematics that teachers could use. Each of those descriptions, consisting of the event and the mathematics related to the event, is what we call a Situation. We developed our Framework for Mathematical Understanding for Secondary Teaching MUST based on an analysis of our entire set of Situations. We call the work practice-based because the MUST framework is based on actual events that we witnessed in our observations of secondary mathematics practice. Groups of mathematics teachers can use this volume to enhance their own understandings of secondary mathematics. School leaders and professional developers in secondary mathematics will find our MUST Framework and Situations useful as they work with teachers in enhancing and deepening their understanding of secondary mathematics. Mathematics teacher educators and mathematicians who teach mathematics to prospective and in-service secondary teachers will be able to couch their mathematical discussions in the Situations examples that arise from secondary mathematics classrooms. They will be able to use this volume as they design courses and programs that enhance mathematics from the perspectives identified in the MUST framework. Policymakers and researchers can use our MUST framework as they consider the mathematics background needed by teachers.

Facilitator's Guidebook for Use of Mathematics Situations in Professional Learning Rose Mary Zbiek, Glendon W. Blume, M. Kathleen Heid, 2018-01-01

The depth and breadth of a mathematics teacher's understanding of mathematics matter most as the teacher engages in the daily work of teaching. One of the major challenges to teachers is to be ready to draw on the relevant mathematical ideas from different areas of the school curriculum and from their postsecondary mathematics experiences that can be helpful in explaining ideas to students, making instructional decisions, creating examples, and engaging in other aspects of their daily work. Being mathematically ready and confident requires teachers to engage in ongoing professional learning that helps them to connect mathematics to events like those they live on a daily basis. The purpose of this volume is to provide teachers

teacher educators and other facilitators of professional learning opportunities with examples of authentic events and tools for discussing those events in professional learning settings The work shared in Facilitator s Guidebook for Use of Mathematics Situations in Professional Learning Guidebook resulted from a collaborative effort of school mathematics supervisors and university mathematics educators The collaborators joined their varied experiences as teachers coaches supervisors teacher educators and researchers to suggest ways to scaffold activities encourage discussion and instigate reflection with teacher participants of differing mathematics backgrounds and with varying teaching assignments Each guide has ideas for engaging and furthering mathematical thought across a range of facilitator and participant mathematics backgrounds and draws on the collaborators uses of the Situations with in service and prospective teachers The events and mathematical ideas connected to each event come from Situations in Mathematical Understanding for Secondary Teaching A Framework and Classroom Based Situations A Situation is a description of a classroom related event and the mathematics related to it For each of six Situations school and university collaborators developed a facilitator s guide that presents ideas and options for engaging teachers with the event and the mathematical ideas The Guidebook also contains suggestions for how teachers and others might develop new Situations based on events from their own classrooms as a form of professional learning Both teacher educators and school based facilitators can use this volume to structure sessions and inspire ideas for professional learning activities that are rooted in the daily work of mathematics teachers and students

The Mathematics Teacher Education Partnership W. Gary Martin, Brian R. Lawler, Alyson E. Lischka, Wendy M. Smith, 2020-01-01 This book provides an overview of a body of work conducted over the past seven years related to the preparation of secondary mathematics teachers by the Mathematics Teacher Education Partnership MTE Partnership a national consortium of more than 90 universities and 100 school systems The MTE Partnership is organized as a Networked Improvement Community NIC which combines the disciplined inquiry of improvement science with the power of networking to accelerate improvement by engaging a broad set of participants The MTE Partnership is addressing key challenges in secondary mathematics teacher preparation including Supporting the development of content knowledge relevant to teaching secondary mathematics Providing effective clinical experiences to teacher candidates Recruiting secondary mathematics teacher candidates ensuring program completion and their subsequent retention in the field as early career teachers Supporting overall transformation of secondary mathematics teacher preparation in alignment with these challenges Ensuring a focus on equity and social justice in secondary mathematics teacher recruitment preparation and induction This book outlines existing knowledge related to each of these key challenges as well as the work of Research Action Clusters RACs formed to address the challenges Each RAC includes participants from multiple institutions who work collaboratively to iteratively develop test and refine processes and products that can help programs more effectively prepare secondary mathematics teacher candidates The book describes promising approaches to improving aspects of secondary mathematics teacher preparation developed by the RACs

including specific products that have been developed which will inform the work of others involved in secondary mathematics teacher preparation. In addition, reflections on the use of the NIC model provides insights for others considering this research design. Particular references to the Standards for Preparing Teachers of Mathematics Association of Mathematics Teacher Educators 2017 are included throughout the book.

Connecting Abstract Algebra to Secondary Mathematics, for Secondary Mathematics Teachers Nicholas H. Wasserman, 2018-12-12

Secondary mathematics teachers are frequently required to take a large number of mathematics courses including advanced mathematics courses such as abstract algebra as part of their initial teacher preparation program and or their continuing professional development. The content areas of advanced and secondary mathematics are closely connected. Yet despite this connection many secondary teachers insist that such advanced mathematics is unrelated to their future professional work in the classroom. This edited volume elaborates on some of the connections between abstract algebra and secondary mathematics including why and in what ways they may be important for secondary teachers. Notably the volume disseminates research findings about how secondary teachers engage with and make sense of abstract algebra ideas both in general and in relation to their own teaching as well as offers itself as a place to share practical ideas and resources for secondary mathematics teacher preparation and professional development. Contributors to the book are scholars who have both experience in the mathematical preparation of secondary teachers especially in relation to abstract algebra as well as those who have engaged in related educational research. The volume addresses some of the persistent issues in secondary mathematics teacher education in connection to advanced mathematics courses as well as situates and conceptualizes different ways in which abstract algebra might be influential for teachers of algebra.

Connecting Abstract Algebra to Secondary Mathematics for Secondary Mathematics Teachers is a productive resource for mathematics teacher educators who teach capstone courses or content focused methods courses as well as for abstract algebra instructors interested in making connections to secondary mathematics.

Educating Prospective Secondary Mathematics Teachers Marilyn E. Strutchens, Rongjin Huang, Despina Potari, Leticia Losano, 2018-06-01

This book highlights innovative approaches to preparing secondary mathematics teachers. Based on empirical findings gathered in several countries on five continents it provides a wealth of best practices for preparing secondary mathematics teachers and discusses issues related to their professional and personal growth such as identity, content knowledge and pedagogical content knowledge which also includes knowledge of integrating technology into teaching and learning mathematics. Divided into four parts the book focuses on field experiences, technologies, tools and resources, teacher knowledge and teacher professional identities. Some of the main threads running through the book are the importance of university and school partners working together to ensure preservice secondary mathematics teacher success in developing pedagogical strategies that lead toward students' mathematical engagement and achievement, the critical need for preservice secondary mathematics teachers to develop strong content knowledge and pedagogical content knowledge and the importance of

providing opportunities during pre service education for developing prospective teachers professional identities

Mathematics Teachers Engaging with Representations of Practice Orly Buchbinder, Sebastian Kuntze, 2018-01-09 This book presents innovative approaches and state of the art empirical studies on mathematics teacher learning It highlights the advantages and challenges of such tools as classroom videos concept cartoons simulations and scenarios The book details how representations of practice encourage and afford professional development and describes how these tools help to investigate aspects of teacher expertise beliefs and conceptions In addition the book identifies the methodological challenges that can emerge and the obstacles educators might encounter when using representations of practice The book examines the nature of these challenges and provides suggestions for solving them It offers a variety of different approaches that can help educators to develop professional learning activities for prospective and in service teachers

The AMTE Handbook of Mathematics Teacher Education Babette M. Benken, 2024-02-01 This new volume of The Association of Mathematics Teacher Educators AMTE Professional Book Series is a critical and timely resource that paves the way and guides the future of mathematics teacher education The collection of work in this AMTE Handbook of Mathematics Teacher Education reflects on research and what we know about how best to prepare and support both mathematics teachers and mathematics teacher educators and presents what is happening in the field Examples included in the 22 chapters highlight how we are preparing teachers across multiple contexts e g within district in content courses for the major and grade ranges K 20 and all chapters highlight relevant connections to the AMTE Standards for Preparing Teachers of Mathematics Most importantly this volume explores what we do not yet fully understand and where we are going In essence it considers how we can move the field forward The 95 contributing authors range from graduate students to those who have served as leaders in the field in multiple ways for many years Authors include K 12 teachers school administrators district leaders graduate students higher education faculty and professional development facilitators

Mathematics Matters in Education Yeping Li, W. James Lewis, James J. Madden, 2017-10-03 This book is inspired by Roger E Howe s contributions to the international communities of mathematics and mathematics education Renowned for his research contributions in the fields of representation theory automorphic forms harmonic analysis and invariant theory Dr Howe has also fundamentally deepened our understanding of the mathematics taught in the early school grades and has challenged and stimulated mathematicians and mathematics educators to work together to examine this part of the mathematical universe more critically and in imaginative new ways This volume will help summarize and highlight Howe s contributions to several topic areas in mathematics education demonstrating the possibility and importance of engaging mathematicians in high impact research in mathematics education and showcasing the importance of cross disciplinary collaboration and exchange

Understanding Analysis and its Connections to Secondary Mathematics Teaching Nicholas H. Wasserman, Timothy Fukawa-Connelly, Keith Weber, Juan Pablo Mejía Ramos, Stephen Abbott, 2022-01-03 Getting certified to teach high school mathematics typically requires completing a

course in real analysis Yet most teachers point out real analysis content bears little resemblance to secondary mathematics and report it does not influence their teaching in any significant way This textbook is our attempt to change the narrative It is our belief that analysis can be a meaningful part of a teacher s mathematical education and preparation for teaching This book is a companion text It is intended to be a supplemental resource used in conjunction with a more traditional real analysis book The textbook is based on our efforts to identify ways that studying real analysis can provide future teachers with genuine opportunities to think about teaching secondary mathematics It focuses on how mathematical ideas are connected to the practice of teaching secondary mathematics and not just the content of secondary mathematics itself Discussions around pedagogy are premised on the belief that the way mathematicians do mathematics can be useful for how we think about teaching mathematics The book uses particular situations in teaching to make explicit ways that the content of real analysis might be important for teaching secondary mathematics and how mathematical practices prevalent in the study of real analysis can be incorporated as practices for teaching This textbook will be of particular interest to mathematics instructors and mathematics teacher educators thinking about how the mathematics of real analysis might be applicable to secondary teaching as well as to any prospective or current teacher who has wondered about what the purpose of taking such courses could be

Problem Posing and Problem Solving in Mathematics Education Tin Lam Toh, Manuel Santos-Trigo, Puay Huat Chua, Nor Azura Abdullah, Dan Zhang, 2024-01-01 This book presents both theoretical and empirical contributions from a global perspective on problem solving and posing PS PP and their application in relation to the teaching and learning of mathematics in schools The chapters are derived from selected presentations in the PS PP Topical Study Group in ICME14 Although mathematical problem posing is a much younger field of inquiry in mathematics education this topic has grown rapidly The mathematics curriculum frameworks in many parts of the world have incorporated problem posing as an instructional focus building on problem solving as its foundation The juxtaposition of problem solving and problem posing in mathematics presented in this book addresses the needs of the mathematics education research and practice communities at the present day In particular this book aims to address the three key points to present an overview of research and development regarding students mathematical problem solving and posing to discuss new trends and developments in research and practice on these topics and to provide insight into the future trends of mathematical problem solving and posing

Investigación sobre el profesor de matemáticas Badillo Jiménez, Edelmira, 2020-04-28 Este libro presenta una panor mica de investigaciones con el foco en el profesor de matem ticas desde distintas perspectivas te ricas y metodol gicas e incluyendo desde la formaci n de profesores a la pr ctica de aula considerando al profesor como aprendiz y como profesional reflexivo Est organizado en cuatro secciones que se centran respectivamente en el an lisis de la pr ctica docente el conocimiento del profesor el aprendizaje del profesor y el desarrollo de competencias y el desarrollo profesional y el dominio afectivo Las secciones integran cap tulos que narran diferentes aproximaciones a la investigaci n sobre la problem

tica foco de la sección con capítulos que presentan una visión de la investigación a nivel internacional identificando líneas de investigación emergentes El contenido del libro recoge el trabajo de investigadores de la RED8 EDUCACIÓN MATEMÁTICA Y FORMACIÓN DE PROFESORES financiada por el Ministerio de Economía Industria y competitividad de España y de otros expertos en la temática Al mostrar una amplia diversidad de investigaciones sobre el profesor de matemáticas puede ser de interés para investigadores en formación o expertos profesores de matemáticas formadores de profesores y personas interesadas en general en la Educación Matemática

Exploring Mathematical Modeling with Young Learners Jennifer M. Suh, Megan H. Wickstrom, Lyn D. English, 2021-06-01 This book conceptualizes the nature of mathematical modeling in the early grades from both teaching and learning perspectives Mathematical modeling provides a unique opportunity to engage elementary students in the creative process of mathematizing their world A diverse community of internationally known researchers and practitioners share studies that advance the field with respect to the following themes The Nature of Mathematical Modeling in the Early Grades Content Knowledge and Pedagogy for Mathematical Modeling Student Experiences as Modelers Teacher Education and Professional Development in Modeling Experts in the field provide commentaries that extend and connect ideas presented across chapters This book is an invaluable resource in illustrating what all young children can achieve with mathematical modeling and how we can support teachers and families in this important work

Tools for Teaching Conceptual Understanding, Secondary Julie Stern, Krista Ferraro, Juliet Mohnkern, 2017-02-02 Students become experts and innovators through Concept Based teaching Innovators don't invent without a deep understanding of how the world works With this foundation they apply conceptual understanding to solve new problems We want our students to not only retain ideas but relate them to other things they encounter using each new situation to add nuance and sophistication to their thinking To do this they need conceptual understanding This book serves as a road map for Concept Based teaching Discover how to help students uncover conceptual relationships and transfer them to new situations Specifically teachers will learn Strategies for introducing conceptual learning to students Four lesson frameworks to help students uncover conceptual relationships How to assess conceptual understanding and How to differentiate concept based instruction Look no further For deep learning and innovative thinking this book is the place to start The authors tear down the false dichotomies of traditional vs innovative education and provide a practical toolkit for developing creativity and applying knowledge through Concept Based learning Every practitioner needs this book to juxtapose what worked well in the 20th Century with what is essential in the 21st Century and beyond Michael McDowell Superintendent Ross School District Ross CA While most good educators recognise the incredible value of teaching conceptually it is challenging The authors have created accessible practical baby steps for every teacher to use Dr Vincent Chan principal Fairview International School Kuala Lumpur Malaysia

Transform Your Math Class Using Asset-Based Teaching for Grades 6-12 Michael D. Steele, Joleigh Honey, 2024-07-19 Foster a love of mathematics by creating a more

inclusive and empowering learning environment through asset based teaching An asset based perspective on math education means starting with what students already know instead of focusing on what s missing This approach elevates student thinking and reasoning skills In this way educators acknowledge that all students bring prior experiences strengths talents and resources to the learning process and can contribute meaningfully in an authentic learning environment Transform Your Math Class Using Asset Based Teaching for Grades 6 12 provides insight into asset based perspectives in mathematics education to create an environment where all students feel valued and capable of being doers of mathematics In the book Michael Steele and Joleigh Honey highlight the importance of using language instructional routines and systemic structure that positively impact student engagement their math identity and ultimately their outcomes Providing a wealth of knowledge and practical strategies that can be used to transform math classrooms into inclusive supportive and empowering learning environments this book Introduces an asset based perspective that focuses on students strengths assets and potential to learn mathematics Includes a variety of frameworks and tools that teachers can use to build and grow their sense of asset based perspectives Offers strategies for promoting a growth mindset in mathematics encouraging productive struggle in math and promoting equitable math instruction Supports teachers in reflecting on their decisions self awareness and self management Includes a companion online study guide to support teachers individually or as part of a professional learning community Adopting asset based perspectives is about movement over time not about flipping a switch This book paves the path for an asset based journey that ultimately helps to transform our math classrooms and advance all students learning and development

Professional Development and Knowledge of Mathematics Teachers Stefan Zehetmeier, Despina Potari, Miguel Ribeiro, 2020-12-21 Mathematics teaching and professional development of mathematics teachers are areas where research has increased substantially in recent years In this dynamic field mathematics teaching practices pedagogical knowledge of mathematics teachers and professional development via collaboration between mathematics teachers have emerged as vital domains of inquiry Professional Development and Knowledge of Mathematics Teachers addresses the underlying characteristics of mathematics teacher education and those professional development contexts that have a positive impact on teachers professional learning Recognizing the impact of broader institutional settings on mathematics teaching and teacher professional development the editors suggest bridging the gaps between theoretical practices and methodological approaches in the field by focusing on and conceptualizing the following relational factors The study of mathematics teaching and classroom situations Researching teacher and teacher educator knowledge since these issues inform the quality of mathematics teaching directly Mathematics teacher education and professional development focusing on design principles and the impact they have on teacher professional learning Combining central issues of mathematics teaching knowledge and professional development the chapters in this volume address each of the above factors and provide profound considerations on both theoretical and practical levels This book will be an essential resource for researchers

teachers and students working in the fields of mathematics teaching and mathematics teacher professional development

Abstracts of Papers Presented to the American Mathematical Society American Mathematical Society, 2008

Resources in Education, 1999-10

Mathematics Education in the Digital Age Alison Clark-Wilson, Ana

Donevska-Todorova, Eleonora Faggiano, Jana Trgalová, Hans-Georg Weigand, 2021-05-24 The wide availability of digital educational resources for mathematics teaching and learning is indisputable with some notable genres of technologies having evolved such as graphing calculators dynamic graphing dynamic geometry and data visualization tools But what does this mean for teachers of mathematics and how do their roles evolve within this digital landscape This essential book offers an international perspective to help bridge theory and practice including coverage of networking theories curriculum design task implementation online resources and assessment Mathematics Education in the Digital Age details the impacts this digital age has and will continue to have on the parallel aspects of learning and teaching mathematics within formal education systems and settings Written by a group of international authors the chapters address the following themes Mathematics teacher education and professional development Mathematics curriculum development and task design The assessment of mathematics Theoretical perspectives and methodologies approaches for researching mathematics education in the digital age This book highlights not only the complex nature of the field but also the advancements in theoretical and practical knowledge that is enabling the mathematics education community to continue to learn in this increasingly digital age It is an essential read for all mathematics teacher educators and master teachers

Pursuing Language and

Metalinguistics in K-12 Classrooms Renata Love Jones, C. Patrick Proctor, 2024-12-27 This conceptually expansive volume provides a theoretical framework and practical guide for designing and implementing literacy instruction that promotes students critical metalinguistic awareness in K 12 classroom contexts Grounded in varied instructional contexts the chapters present theories of language and overviews of research in ways that are accessible and engaging Through innovative research and practical examples the authors show how educators can address content areas modalities and K 12 student populations in increasingly diverse classroom spaces Concrete instructional examples throughout along with a culminating set of teacher vignettes make this text an invaluable resource for pre service teachers graduate students and scholars in the field of literacy education

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