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Teachers make an enormous difference in classrooms, and this book is designed to help you become a better teacher. The knowledge base for teaching continues to expand, confirming the powerful influence that teachers have on students and the importance of knowledge for effective teaching (Alexander, 2006). Research also continues to highlight the central role teachers play in determining the quality of learning in classrooms (Darling-Hammond & Bransford, 2005). Teachers do make a difference in how much students learn, and this difference depends on how they teach (Bransford, Darling-Hammond, & LePage, 2005). Teachers’ powerful influence on learning is even more convincingly documented in the research literature today than it was in 1989, when the first edition of this text was published. Translating this research into teaching strategies that teachers can use to increase learning in their classrooms continues to be the central goal of this text.

**New to This Edition**

- New Chapter: Chapter 12, Differentiating Instruction
- New Feature: **Exploring Diversity**, found in every chapter including the following topics:
  - The Diversity of Our Learners (Chapter 1)
  - Urban Schools and At-risk Students (Chapter 2)
  - Personalizing Content to Increase Motivation in Students from Diverse Backgrounds (Chapter 4)
  - Direct Instruction with Culturally and Linguistically Diverse Students (Chapter 8)
  - Differences in Background Knowledge (Chapter 9)
  - Using Guided Discovery with Cultural Minorities (Chapter 10)
  - Problem-Based Instruction with Developmentally Different Learners (Chapter 11)
  - Effective Assessment with Learners from Diverse Backgrounds (Chapter 13)

- New Feature: **Technology and Teaching**, found in every chapter, including the following topics:
  - Using Technology to Increase Student Learning (Chapter 1)
  - Using Technology to Communicate with Parents (Chapter 3)
  - Using Technology to Plan (Chapter 4)
  - Using Technology to Create Lesson Focus (Chapter 5)
  - Using Technology to Increase Student Involvement (Chapter 6)
This book connects two areas in education. One is the research on how teaching influences learning, which includes a wide range of studies conducted since the early 1970s. Originally grounded in the research on effective teaching, this literature has expanded to include topics such as teacher and student thinking, constructivist views of learning, teaching for understanding, and the importance of social interaction in learning.

Teaching methodology is the second area addressed in this book. To be usable research findings need to be translated into teaching strategies that teachers can readily apply in their classrooms. This edition combines the best of these two areas. We apply the research on teaching to strategies that are theoretically sound, yet practical and usable.

**Goals of This Text**

We have two goals in combining these areas:

- To influence how teachers think about teaching
- To expand and improve their instructional strategies

The way teachers think and what they know are two major factors that influence how they actually teach. And, the way teachers think depends on what they know; in other words teacher thinking and teacher knowledge are interdependent. To meet our goals, this book helps teachers acquire the professional knowledge that influences both their thinking and the way they actually teach in their classrooms.

Without the research to provide a conceptual foundation methods become mechanical applications of rules implemented without understanding. Without practical suggestions for teaching practice the research literature remains abstract and irrelevant. In this sixth edition we again try to avoid both pitfalls by emphasizing the theoretical and conceptual underpinnings of the research and the implications of this research for classroom practice.

**Text Themes**

Today’s schools are changing and these changes present both opportunities and challenges. To address these changes we have organized the sixth edition around three powerful and pervasive forces in education. These forces are translated into three themes that are integrated and applied throughout the text:

- **Standards and accountability**
- The diversity of our learners
- The use of technology to increase student learning

Standards and accountability are reshaping the ways teachers teach and students learn. Every state has created standards to guide student learning, and there is a movement to create national standards in areas such as reading and math. To respond to this movement, we have made standards and accountability a major theme for this text. We introduce the
theme in Chapter 1 and relate the process of teacher planning to it in Chapter 4. In addition, we discuss how standards influence assessment as well as the implementation of specific teaching strategies in later chapters. The diversity of our learners, the second theme for this text, reflects the growing diversity of our classrooms. This diversity has important implications for the way we teach. In addition to an entire chapter on diversity (Chapter 2) and a new chapter on differentiating instruction (Chapter 12), we also address the topic of diversity in a feature, Exploring Diversity, found in every chapter.

Chapter 1: The Diversity of our Learners
Chapter 2: Urban Schools and At-risk Students
Chapter 3: Challenges to Home-School Communication
Chapter 4: Personalizing Content to Increase Motivation in Students from Diverse Backgrounds
Chapter 5: Teacher Attitudes and Learner Diversity
Chapter 6: Involving Students from Diverse Backgrounds
Chapter 7: Using Cooperative Learning to Capitalize on Diversity
Chapter 8: Direct Instruction with Culturally and Linguistically Diverse Students
Chapter 9: Differences in Background Knowledge
Chapter 10: Using Guided Discovery with Cultural Minorities
Chapter 11: Problem-Based Instruction with Developmentally Different Learners
Chapter 12: Entire chapter focuses on differentiating instruction
Chapter 13: Effective Assessment with Learners from Diverse Backgrounds

Technology is the third theme of this edition. Technology is changing the way we live, as well as the way we learn and teach. Various forms of technology, including white boards, document cameras, computers, and the Internet are all changing our classrooms. Tomorrow’s teachers need to know how to integrate technology into their teaching. We address applications of technology in the feature, Technology and Teaching, found in every chapter.

Chapter 1: Using Technology to Increase Student Learning
Chapter 2: Employing Technology to Support Learners with Disabilities
Chapter 3: Using Technology to Communicate with Parents
Chapter 4: Using Technology to Plan
Chapter 5: Using Technology to Create Lesson Focus
Chapter 6: Using Technology to Increase Student Involvement
Chapter 7: Using Computer-Mediated Communication to Facilitate Cooperative Learning
Chapter 8: Capitalizing on Technology in Direct Instruction
Chapter 9: Using Technology to Structure and Organize Content
Chapter 10: Using Databases in Guided Discovery Lessons
Chapter 11: Using Technology as a Tool to Teach Problem Solving
Chapter 12: Technology as a Tool for Differentiating Instruction
Chapter 13: Using Technology in Assessment

We also added new sections on Standards in Today’s Schools, Professional Organizations’ Standards, and National Standards to help teachers understand how this reform will affect
their teaching. These changes reflect the evolving realities of modern classrooms, as well as the new responsibilities today's teachers are being asked to undertake. In addition we have added feedback for our Preparing for Your Licensure Exam feature to help students master each chapter's content. We hope these changes in the sixth edition prepare you for the challenges of teaching in the twenty-first century.

Supplements

Instructor Manual/Test Bank

We've designed this manual to help you use Learning and Teaching, 6th edition, as effectively as possible. Many of the ideas contained in this manual come from years of using this text in our own classes as well as our continued work in the public schools. Others are the result of feedback and discussions we've had with teachers, students and our colleagues. We hope you find the suggestions useful.

The manual is organized by chapters. Each chapter contains chapter overview, objectives, chapter outlines, presentation outlines, multiple choice and short answer test items and an answer key. The presentation outline is organized in terms of the major topics in each chapter. Under these topics you will find teaching suggestions including ways to use large- and small-group activities, as well as ways to integrate the discussion questions and portfolio activities into your instruction. Following the presentation outline you'll find Feedback for Preparing for Your Licensure Exam: Questions for Analysis prior to the test items and answer key.

The power of classroom practice:

Teacher educators who are developing pedagogies for the analysis of teaching and learning contend that analyzing teaching artifacts has three advantages: it enables new teachers time for reflection while still using the real materials of practice; it provides new teachers with experience thinking about and approaching the complexity of the classroom; and in some cases, it can help new teachers and teacher educators develop a shared understanding and common language about teaching. (Darling-Hammond & Bransford, 2005)

As Linda Darling-Hammond and her colleagues point out, grounding teacher education in real classrooms—among real teachers and students and among actual examples of students' and teachers' work—is an important, and perhaps even an essential, part of training teachers for the complexities of teaching in today's classrooms. For this reason we have created a valuable, timesaving website—MyEducationLab—that provides you with the context of real classrooms and artifacts that research on teacher education tells us are so important. The authentic in-class video footage, interactive skill-building exercises, and other resources available on MyEducationLab offer you a unique valuable teacher education tool.

MyEducationLab is easy to use and integrate into both your assignments and your courses. Wherever you see the MyEducationLab logo in the margins or elsewhere in the
text, follow the simple instructions to access the videos, strategies, cases, and artifacts asso-
ciated with these assignments, activities, and learning units. MyEducationLab is organized
topically to enhance the coverage of the core concepts discussed in the chapters of your
book. For each topic in the course you will find most or all of the following resources:

**Connection to National Standards** Now it is easier than ever to see how your course-
work is connected to national standards. In each topic of MyEducationLab you will find
intended learning outcomes connected to the Interstate New Teacher Assessment and
Support Consortium (INTASC) standards. All of the Assignments and Activities and all of
the Building Teaching Skills and Dispositions in MyEducationLab are mapped to the
appropriate national standards and learning outcomes as well.

**Assignments and Activities** Designed to save instructors preparation time, these
assignable exercises show concepts in action (through video, cases, or student and
teacher artifacts) and then offer thought-provoking questions that probe your under-
standing of these concepts or strategies. (Feedback for these assignments is available to
the instructor.)

**Building Teaching Skills and Dispositions** These learning units help you practice
and strengthen skills that are essential to quality teaching. First you are presented with the
core skill or concept and then given an opportunity to practice your understanding of it
multiple times by watching video footage (or interacting with other media) and then
critically analyzing the strategy or skill presented.

**Video Examples** Intended to enhance coverage in your book with visual examples of
real educators and students, these video clips (a number of which are referenced explicitly
in this text) include segments from classroom lessons as well as interviews with teachers,
administrators, students, and parents.

**General Resources on Your MyEducationLab Course** The Resources section on
your MyEducationLab course is designed to help you pass your licensure exam; put
together an effective portfolio and lesson plan; prepare for and navigate the first year of
your teaching career; and understand key educational standards, policies, and laws. This
section includes the following:

- **Licensure Exams.** Access guidelines for passing the Praxis exam. The Practice Test
  Exam includes practice questions, Case Histories, and Video Case Studies.
- **Portfolio Builder and Lesson Plan Builder.** Create, update, and share portfolios and
  lesson plans.
- **Preparing a Portfolio.** Access guidelines for creating a high-quality teaching
  portfolio that will allow you to practice effective lesson planning.
- **Licensure and Standards.** Link to state licensure standards and national s
  tandards.
- **Beginning Your Career.** Educate yourself—access tips, advice, and valuable
  information on
- **Resume Writing and Interviewing.** Expert advice on how to write impressive
  resumes and prepare for job interviews.
Your First Year of Teaching. Practical tips to set up your classroom, manage student behavior, and learn to more easily organize for instruction and assessment.

Law and Public Policies. Specific directives and requirements you need to understand under the No Child Left Behind Act and the Individuals with Disabilities Education Improvement Act of 2004.

Visit www.myeducationlab.com for a demonstration of this exciting new online teaching resource and to download a MyEdLab guide correlating MEL course assets to this text.

Acknowledgments

In preparing this edition of Learning and Teaching, we want to sincerely thank the people who have supported its development. We want to particularly thank our editor, Kelly Villella Canton, for her guidance, support, and cooperation as we attempted to implement a number of new ideas for this edition. She epitomizes what authors look for in an editor. We also want to thank Annalea Manalili and Paula Carroll for their help in bringing the project to fruition, as well as our reviewers: Norbet O. Aneke, City University of New York; Christine K. Lemley, Northern Arizona University; Janet Schiavone, George Washington University; and Alice M. Waddell, Mary Baldwin College.

Finally, we again want to thank the many teachers in whose classrooms we’ve worked and visited, and on whose instruction the case studies in the book are based. They helped make this text more real and true to the realities of classroom life.

P.E.
D.K.
Learning and teaching, two most arduous experiences of human being, are considered to have exceptional natures as well. Many scholars have tried long to explain the phenomena during which we learn and teach. This book is a great contribution to its field in that it gives the basics in context with typical processes of learning and teaching. Dr. Kaya and his colleagues have their challenge of taking the reader of this book to a journey in the glamorous world of the most basic human experiences. In the field of pedagogy, learning by teaching (German: Lernen durch Lehren, short LdL) is a method of teaching in which students are made to learn material and prepare lessons to teach it to the other students. There is a strong emphasis on acquisition of life skills along with the subject matter. This method was originally defined by Jean-Pol Martin in the 1980s. Teaching and learning is a process that includes many variables. These variables interact as learners work toward their goals and incorporate new knowledge, behaviours, and skills that add to their range of learning experiences. Over the past century, various perspectives on learning have emerged, among them cognitive (learning as a mental operation); and constructivist (knowledge as a constructed element resulting from the learning process).