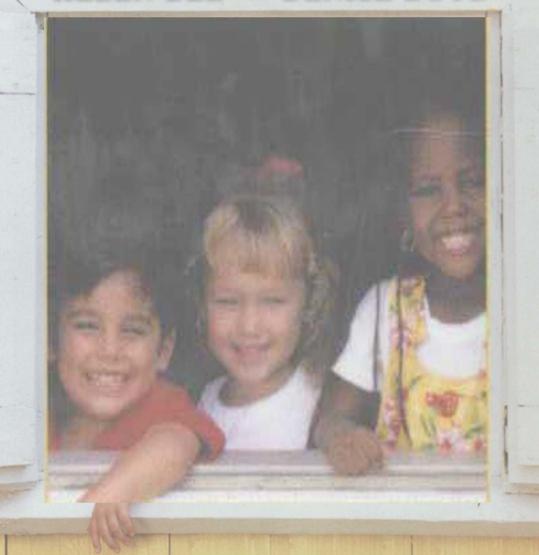
HELEN BEE  $\diamondsuit$  DENISE BOYD



Developing Child

TENTH EDITION



## The Developing Child

Helen Bee

Denise Boyd

Houston Community College System



BOSTON NEW YORK SAN FRANCISCO

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#### Dedication

This book is dedicated to my mother, Bobbie Jean Higgins Roberts. She is my friend and my supporter and is always optimistic about my prospects for success in every endeavor I undertake.

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## To the Student

Hello, and welcome to the study of a fascinating subject—children and their development. Welcome, too, to the adventure of science. From the very first edition of this book, one of Helen Bee's goals has been to convey a sense of excitement about scientific inquiry. We hope that each of you gains some feeling for the way psychologists think, the kinds of questions they ask, and the ways they go about trying to answer those questions. We also want you to gain some sense of the theoretical and intellectual ferment that is part of any science. Think of psychology as a kind of detective story: Psychologists discover clues after hard, often painstaking work; they make guesses or hypotheses; and then they search for new clues to check on those hypotheses.

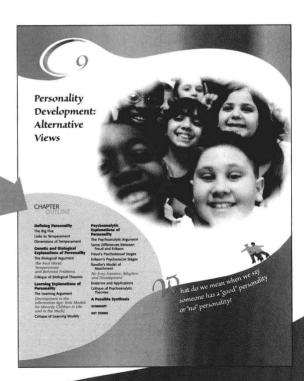
Of course, we also want you to come away from reading this book with a firm foundation of knowledge in the field. Although there is much that developmental psychologists do not yet know or understand, a great many facts and observations have accumulated. These facts and observations will be of help to you professionally if you are planning (or are already in) a career that involves working with children, such as teaching, nursing, social work, medicine, or psychology; the information will also be useful to you as a parent, now or in the future. We hope you enjoy the reading as much as we have enjoyed the writing.

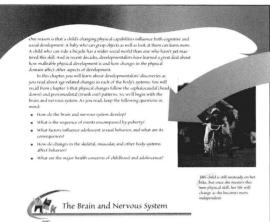
#### **HOW TO WORK WITH THIS TEXTBOOK**

To get the most out of any textbook, you should think of yourself as working *with* it so that you can understand and remember the information in it, rather than reading it as you would a magazine, a newspaper article, or a novel. To work with your textbook most effectively, take advantage of its structural and pedagogical features.

#### **Chapter Outlines**

Before you read each chapter, read over the outline at its beginning. More information will stick in your mind if you have an idea of what to expect.





gure 4.1 shows the main structures of the brain. At birth, the midbrain and the medulla are the most fully developed. These two parts, both in the lower part of the skull and connected to the spinal cord, regulate vital functions such as heartheat and restation as well as attention, sleeping swiding, elimination, and innecessed of the head

CRAWTH CRUPTS

One of the most important principles of neurological development is that the brain grows in spurts rather than in a smooth, continuous fashion (Fischer & Rose, 1994). Each of these quest insulves all of the nation developmental processes you'll read about in the ections that follow, and each is followed by a period of stability. In infancy, the intervals the continuous process of the proce midbrain. A section of the brain bring above the medulla and below the corriex that regulates attention, sleeping, seaking, and other autonuatic functions: it is largely developed at birth. medulla. A portion of the brain that lies immediately above the

at birth.

cortex The convoluted gray por-

#### **Preview Questions**

The introduction to each chapter ends with the following statement: "As you read this chapter, keep the following questions in mind." Like the chapter outline, these questions will create a set of mental "hooks" on which to hang the information in the chapter.

#### **Headings and Subheadings**

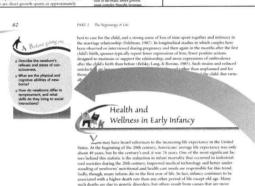
The preview questions correspond to the chapter's major headings. Think of these headings and their subheadings as a way of dividing the information that follows them into categories. The information in each major section and subsection is linked to the heading and subheading under which it is found. Thinking of the material in this way creates a kind of information network in your mind that will make it easier to recall the material when you

are tested. Structuring your notes to correspond to headings will help even more. To have the best chance of creating the information network, stop reading between major sections, reflect back on what you have read, and review your written notes.

#### **Before Going On**

To help you review, the text includes "Before Going On" questions near the end of each major section. You should stop reading and try to answer these questions. If you can't answer the questions, go back and review. You will know what parts of the section to review because each question corresponds to a section subheading. Once you've completed this process, take a break before you begin another major section.

Key terms are defined in the margins. As you come to each boldfaced term in the text, stop and read its definition in the margin. Then go back and reread the sentence that introduced the key term. Reading over the key terms in the margins just before you take an exam can also be a helpful review strategy if you have thoroughly studied the material in which the terms are introduced.



Margin Glossary

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#### **Critical Thinking Questions**

These marginal questions and activities encourage you to relate material in the book to your own experiences. They can also help you remember the text because linking new information to things you already know is a highly effective memory strategy.

#### See for Yourself

Many chapters include a feature called "See for Yourself." Some of these provide instructions for testing the findings of research studies in the real world with real children. In Chapter 6, for instance, See for Yourself tells you how to use

playing cards to test children's use of organizational memory strategies. Other activities describe ways of finding more information about a topic. For example, in Chapter 7, See for Yourself encourages you to use the Internet to find out more about mandatory standardized testing in your state's public schools. Applying what you learn in this book makes the information more meaningful and memorable.

#### **Key Terms**

Key terms are listed alphabetically at the end of each chapter in addition to being defined in the margins. When you finish a chapter, try to recall the definition of each term. A page number is listed for each term, so you can easily look back if you can't remember a definition.

#### **Chapter Summaries**

Looking over the chapter summary can also help you assess how much information you remember. The summaries are organized by major chapter headings.

At this point, the task of understanding and remembering the information in a developmental psychology textbook may seem overwhelming. However, when you finish reading this book, you will have a better understanding of both yourself and other people. So, the benefit you will derive from all your hard work will be well worth it.

Denise Boyd

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CRITICAL THINKING

KEY TERMS



SUMMARY



## To the Instructor

The most obvious change to the tenth edition of *The Developing Child* is the addition of a second author. After a long and distinguished career writing textbooks, Helen Bee retired, and I was fortunate enough to be able to continue her work. One of my goals was to retain the conversational tone of Bee's writing while dealing with the challenges of updating a popular and well-established text. As Bee put it so well in the ninth edition, one of the greatest challenges in updating a text is being open to new theories and concepts and willing to rethink and reorganize whole chapters, rather than sticking reflexively (or defensively) to old rubrics. Revising also sometimes includes eliminating favorite examples that are out of date and searching for new metaphors that will speak to current students. Perhaps hardest of all, one must cut as well as add material. Over many editions, the changes accumulate; if you were to compare this edition to the first edition, published in 1975, you would find almost no common sentences, let alone common paragraphs. Still, my goal was to retain most of the threads running from the first through the ninth edition that made Bee's approach to development unique. In particular, four central goals that guided her writing in every previous edition also guided mine in this edition:

- To actively engage the student in as many ways as possible
- To find that difficult but essential balance between theory, research, and practical application
- To present the most current thinking and research
- To maintain a strong emphasis on culture

#### **NEW TO THE TENTH EDITION**

One important change to the tenth edition is the inclusion of cultural information in the body of each chapter rather than in boxed features. This approach was adopted in order to make it clear to students that cultural variables are central to the study of development. A list of cultural topics, along with their locations in the book, follows the Contents.

The tenth edition of *The Developing Child* includes updated information about the theories and research presented in the ninth edition, as well as additions to most chapters.

#### Chapter 1

- Expanded and updated treatment of information-processing theory
- Discussion of the standards psychologists use to determine the usefulness of a theory
- Explanation of the difficulties inherent in applying psychological research to practical problems
- Discussion of the tendency of parents in the information age to turn to experts, rather than to their own parents, for child-rearing advice
- Description of the historical importance of the Leopold and Loeb trial in introducing Americans to Freud's theory

#### **Chapter 2**

- Greater detail in the discussion of prenatal development
- Discussion of prenatal sex differences
- Up-to-date information about prenatal learning and its relevance to later development
- Discussion of the pros and cons of prosecuting pregnant women for using drugs

#### **Chapter 3**

- Expanded discussion of infant mortality
- Increased information about racial and ethnic differences in infant mortality
- Discussion of research on singing to infants
- Expanded coverage of health issues in early infancy

#### Chapter 4

- Expanded discussion of brain development
- Increased coverage of changes in the brain in middle childhood and adolescence
- Information about the connection between handedness and brain lateralization
- Discussion of the complexities of managing obesity in growing children
- Information about the link between video game playing and spatial cognition

#### Chapter 6

- New discussion of the causes of cognitive development
- Increased coverage of memory and information-processing in middle childhood and adolescence
- Discussion of what infants learn from watching television

#### **Chapter 7**

- New discussion of the pros and cons of the standardized testing movement in U.S. public schools
- Discussion of young children's ability to benefit from computerized instruction
- Evaluation of the merits of universal IQ testing in schools

#### **Chapter 8**

- Expanded coverage of the role of phonological awareness in beginning reading
- Information about the kinds of activities that foster the development of reading comprehension skills in older children
- New information about interventions for children who fall behind in reading
- Discussion of the controversial use of Black English, or Ebonics, in schools
- Discussion of the pros and cons of raising children to be bilingual
- Information about second-language learners' school experiences

#### **Chapter 9**

- Information about differences between children raised by adoptive parents and those raised by biological parents
- Discussion of the availability of role models for minority children

#### Chapter 10

- New information about the emotional component of self-concept
- Discussion of the significance of cross-gender play in early childhood
- Information about negative developmental outcomes associated with the combination of high neuroticism and external locus of control
- Discussion of the benefits of formal rites of passage programs for minority teens

#### Chapter 11

- Expanded coverage of the effects of attachment history on adult behavior
- Discussion of various explanations for some infants' failure to form an attachment
- Information about the correlation between infant temperament and attachment quality
- New discussion of trait aggression
- Expanded information about bullies and victims

#### Chapter 12

- Revamped discussion of theories of moral development, highlighting the emotional, behavioral, and logical components of changes in this domain
- New section covering causes and consequences of moral development
- Expanded coverage of children's understanding of the difference between conventional and moral rules

#### Chapter 13

- Expanded discussion of links between family structure variables and developmental outcomes
- New information about the effects of divorce on children
- New information about gay and lesbian families
- Discussion of research involving children raised by grandparents
- Discussion of steps parents can take to insulate children from the effects of divorce

#### Chapter 14

- Discussion of the potential impact on children of televised terrorism and warfare
- Expanded coverage of the transition from elementary to secondary school
- Discussion of methodological issues in day-care research
- Information about homeschooling
- Information about educational interventions for high school dropouts

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#### Chapter 15

- Inclusion of material on eating disorders
- Expanded discussion of externalizing disorders such as ADHD and conduct disorders
- Expanded coverage of special education services in U.S. public schools
- Guidelines for determining when children and families need help from mental health professionals

#### **Epilogue**

Comprehensive summary of the book's chapters

#### **PEDAGOGY**

The tenth edition of *The Developing Child* includes several important pedagogical features, most of which (those marked with an asterisk) are new to this edition.

#### **Preview Questions\***

Each chapter begins with a set of preview questions that correspond to the chapter's major headings.

#### **Before Going On\***

Questions in the margins near the end of each major section prompt students to stop reading and determine whether they can recall information from the section before moving on.

#### Margin Glossary\*

All boldfaced terms in the text are defined in the margins as well as in a glossary at the end of the book.

#### See for Yourself\*

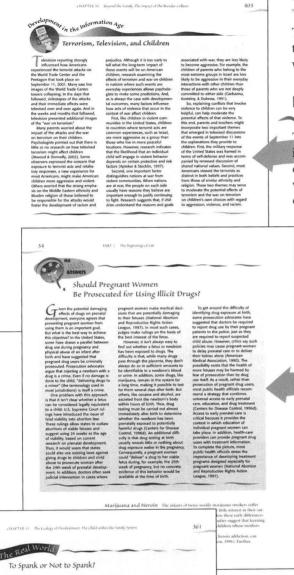
Many chapters include a feature that gives readers instructions for either replicating the findings of a developmental study in an informal way or finding out more about a specific topic.

#### **Critical Thinking Questions**

These questions and activities in the margins encourage students to relate information in the text to their own personal experiences.

#### **Chapter Summaries**

Summaries are organized by major chapter heading and include bulleted summaries of the information that follows each subheading.



#### **BOXED FEATURES**

The tenth edition of *The Developing Child* includes four types of boxed discussions, including two (those marked with an asterisk) that are new to this edition:

#### **Development in the Information Age\***

These discussions present ideas and research about how information technology may shape development. For example, the Information Age essay in Chapter 6 deals with what babies may learn from watching videos that claim to enhance intellectual development, and the one

in Chapter 14 discusses the possible effects on children's mental health of widely televised events such as the September 11, 2001 attacks.

#### No Easy Answers\*

These discussions introduce students to the idea that there are many practical questions associated with children's development for which the science of developmental psychology cannot provide definitive answers. For example, in Chapter 2, students learn about the teratogenic effects of many drugs. The No Easy Answers feature acquaints them with the complexities involved in prosecuting women for using illegal drugs during pregnancy: Prosecution may stop some women from using drugs while they are pregnant but may also prevent many other women from seeking prenatal care because they fear being charged with a crime. Likewise, educating pregnant women about correlations between drug use and developmental outcomes such as low birth weight and mental retardation may lead some women to abstain from using drugs. But other women may conclude that such outcomes are not inevitable and convince themselves

that the infants they deliver will be among the fortunate ones who escape the effects of teratogenic drugs. The feature also reminds students that the rights of pregnant women as citizens must also be considered; their access to legal substances such as alcohol and tobacco, which may be teratogenic, cannot be restricted just because they happen to be pregnant. Thus, developmental researchers can identify the effects of various drugs on prenatal development, but society must take into account many other factors when trying to create a policy to prevent pregnant women from using them.

#### The Real World

Nearly every chapter includes a boxed discussion of the application of scientific knowledge to a practical question. For example, the Real World feature in Chapter 13 is titled "To Spank or Not to Spank?" The intent of these discussions is to show students not

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only that it is possible to study such applied questions with scientific methods, but also that all the theory and research they are reading about may have some relevance to their own lives.

#### **Research Report**

Most chapters include a boxed discussion of a particularly important study or series of studies. For example, the Research Report in Chapter 13 describes studies examining the benefits of extended families for children.

#### **ACKNOWLEDGMENTS**

Thanks to the wonderful people at Allyn & Bacon who participated in the development and completion of this project, including Carolyn Merrill, Tom Pauken, and Kelly Perkins. In addition, I am grateful to all of the reviewers who took time to comment on this and previous editions of *The Developing Child*. The following people provided invaluable feedback through their reviews for the tenth edition:

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Patricia A. Jarvis, Illinois State University

Ric Wynn, County College of Morris



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#### INSTRUCTOR SUPPLEMENTS

#### Instructor's Manual

Prepared by Dara Musher-Eizenman, Bowling Green State University, the *Instructor's Manual* is a wonderful tool for classroom preparation and management. A brand new "easy-to-find" format includes detailed cross-references to features in the *Instructor's Manual* as well as to other print and media supplements and outside teaching resources. The *Instructor's Manual* is both comprehensive and extensive. Each chapter includes the following resources:

- An At-a-Glance Grid, with detailed pedagogical information, references to both print and media supplements for each concept, and a chapter overview
- A detailed chapter outline, with summaries of key concepts
- Teaching objectives, which correlate with the Grade Aid Study Guide learning objectives
- List of key terms
- Lecture material, including outlines and suggested discussion topics, with references
  to pertinent activities in the *Instructor's Manual* and videos from the Allyn & Bacon
  video library
- Updated classroom activities and demonstrations
- An updated list of video, media, print, and Web resources
- Discussion of the CD-ROM Development: Journey through Adolescence, including pertinent discussion questions and full table of contents
- New Web links

In addition, the appendix includes a compilation of handouts and video offerings.

#### **Test Bank**

The Test Bank, prepared by Carolyn Meyer, Lake-Sumter Community College, helps students prepare for exams with challenging questions that target key concepts. Each chapter includes

- Over 100 questions, including multiple choice, true/false, short answer, and essay questions—with answers or answer justifications
- Page references, a difficulty rating, and a category designation for each question

In addition, the appendix includes a sample open-book quiz.

The Test Bank is also available in TestGen 4 computerized format, which makes creating tests for the classroom easy. This version is available from your Allyn & Bacon sales representative.

#### **PowerPoint Presentation**

Patti Price, Wingate University, prepared a PowerPoint presentation that is an exciting interactive tool for use in the classroom. Each chapter includes

- Key points covered in the textbook
- Images from the textbook, with demonstrations
- A link to the companion Web site for activities
- Electronic files of the Instructor's Manual

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#### Transparencies for Child Development, 2004

Approximately 125 new, full-color acetates allow instructors to enhance classroom lecture and discussion. Images included are from Bee and Boyd's *The Developing Child*, Tenth Edition, and Cook and Cook's *Perspectives on Child Development*.

## Development: Journey through Childhood Video, with Video Guide

A wonderful tool, the video offers two or three clips per chapter, and the Video Guide provides critical thinking questions for each clip. Clips cover topics such as a live birth, babies and language development, differences in personality among toddlers, child and parent interaction, and exceptional children. In addition, the Video Guide provides Web resources for more information.

#### Development: Journey through Adolescence CD-ROM

This multimedia learning tool is available with the purchase of a new textbook. It includes eight units that cover development from the prenatal period through adolescence and introduce all of the biological, cognitive, and psychosocial changes that occur along the way. Clips include footage of live births, interviews with adolescents and the elderly, and toddlers learning to walk. In addition, audio clips, flash animations, and 3-D video animations accompany the footage. Written by Dr. Kelly Welch of Kansas State University, the CD-ROM includes several exercises for students, such as "drag-and-drop" activities, multiple-choice quizzes, flash cards of glossary terms, journal writing, and instant feedback exercises called "Mad Minutes."

#### CourseCompass

Powered by Blackboard, this course management system uses a powerful suite of tools to allow instructors to create an online course guide.

#### **Child Development Digital Image Archive**

The Digital Image Archive allows instructors to customize their classroom presentations. The Archive is a comprehensive source of images, including charts, graphs, maps, tables, and figures, with video clips and related Web links. This CD-ROM is available upon adoption of the text from your Allyn & Bacon sales representative.

#### STUDENT SUPPLEMENTS

#### **Companion Web Site**

The book's companion Web site, http://www.ablongman.com/bee10e is a unique resource for connecting the text material to resources on the Internet. Each chapter includes

- Learning objectives
- Updated and annotated Web links for additional sources of information
- Flash cards with glossary terms

- Online practice tests
- Child development learning activities

#### **Grade Aid Study Guide**

Prepared by Stephen H. Baker and Shawn E. Davis, the University of Houston, this is a comprehensive and interactive study guide. Each chapter includes

- "Before You Read," providing a brief chapter summary and chapter learning objectives
- "As You Read," a collection of demonstrations, activities, and exercises, including activities that correspond to the CD-ROM *Development: Journey through Adolescence*
- "After You Read," containing three short practice quizzes and one comprehensive practice test
- "When You Have Finished," with Web links to further resources
- A crossword puzzle using key terms from the text

An appendix includes answers to all practice tests and the crossword puzzle.

#### iSearch: Human Development

This booklet is designed to help students select and evaluate research from the Web to find the best and most credible information available. The booklet contains

- A practical discussion of search engines
- Detailed information on evaluating online sources
- Citation guidelines for Web resources
- Web activities for human development
- Web links for human development
- A guide to Research Navigator<sup>™</sup>

#### Research Navigator™

Allyn & Bacon's new Research Navigator™ is an easy way for students to start a research assignment or research paper. By offering extensive help on the research process and three exclusive databases of credible and reliable source material, including EBSCO's ContentSelect Academic Journal Database, *New York Times* Search by Subject Archive, and "Best of the Web" Link Library, Research Navigator™ helps students make the most of their online research time.

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