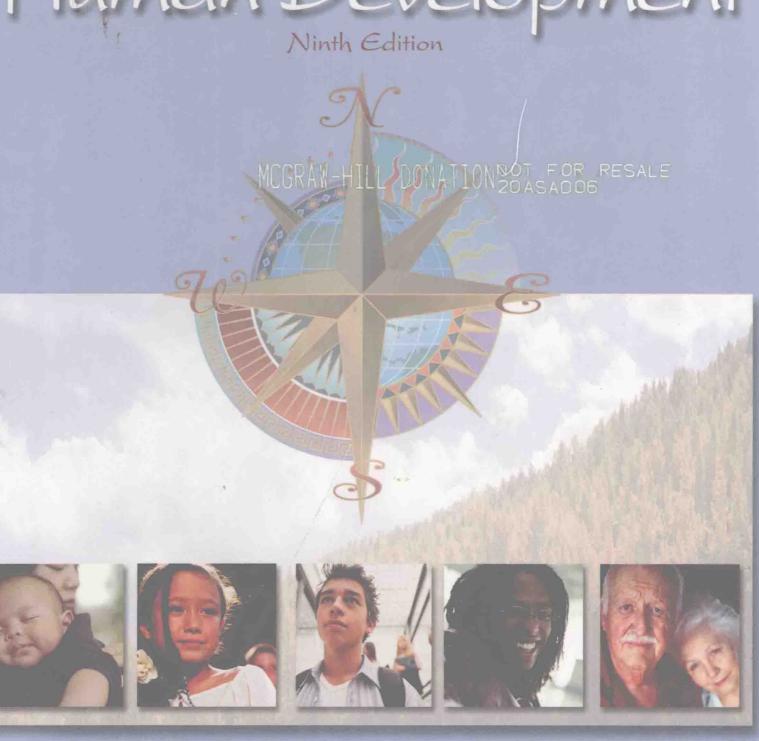
Human Development



Diane E. Papalia Sally Wendkos Olds Ruth Duskin Feldman

Human Development

9th Edition



Diane E. Papalia

Sally Wendkos Olds

Ruth Duskin Feldman

in consultation with

Dana Gross





HUMAN DEVELOPMENT, NINTH EDITION

Published by McGraw-Hill, a business unit of The McGraw-Hill Companies, Inc., 1221 Avenue of the Americas, New York, NY 10020. Copyright "2004, 2001, 1998, 1995, 1992, 1989, 1986, 1981, 1978 by The McGraw-Hill Companies, Inc. All rights reserved. No part of this publication may be reproduced or distributed in any form or by any means, or stored in a database or retrieval system, without the prior written consent of The McGraw-Hill Companies, Inc., including, but not limited to, in any network or other electronic storage or transmission, or broadcast for distance learning.

Some ancillaries, including electronic and print components, may not be available to customers outside the United States.

This book is printed on acid-free paper.

3 4 5 6 7 8 9 0 VNH/VNH 0 9 8 7 6 5 4

ISBN 0-07-282030-6

Vice president and editor-in-chief: Thalia Dorwick

Publisher: Stephen D. Rutter

Senior sponsoring editor: Rebecca H. Hope Developmental editor: Sienne Patch Marketing manager: Melissa Caughlin Project manager: Richard H. Hecker

Production supervisor: Enboge Chong Media technology producer: Ginger Bunn

Manager, Design: Laurie Entringer

Cover/interior designer: Maureen McCutcheon

Art editor: Jen DeVere

Senior photo research coordinator: Nora Agbayani Photo research: Toni Michaels/PhotoFind, L.L.C. Senior supplement producer: David A. Welsh Compositor: The GTS Companies/York, PA Campus

Typeface: 10.5/13 Minion Printer: Von Hoffmann Press

The credits section for this book begins on page A-1 and is considered an extension of the copyright page.

Library of Congress Cataloging-in-Publication Data

Papalia, Diane E.

Human development / Diane Papalia, Sally Wendkos Olds, Ruth Duskin Feldman.-- 9th ed. p. cm.

Includes bibliographical references and index.

ISBN 0-07-282030-6 (alk. paper) -- ISBN 0-07-121501-8 (ISE)

1. Developmental psychology. 2. Developmental psychobiology. I. Olds, Sally

Wendkos. II. Feldman, Ruth Duskin. III. Title.

BF713.P35 2003 155--dc21

2003042019

About the Authors



As a professor, **Diane E. Papalia** taught thousands of undergraduates at the University of Wisconsin-Madison. She received her bachelor's degree, majoring in psychology, from Vassar College and both her master's degree in child development and family relations and her Ph.D. in life-span developmental psychology from West Virginia University. She has published numerous articles in such professional journals as *Human Development*, *International Journal of Aging and Human Development*, Sex Roles, Journal of Experimental Child Psychology, and Journal of Gerontology. Most of these papers have dealt with her major research focus, cognitive development from childhood through old age. She is especially interested in intelligence in old age and factors that contribute to the maintenance of intellectual functioning in late adulthood. She is a Fellow in the Gerontological Society of America. She is the coauthor of A Child's World, now in its ninth edition, with Sally Wendkos Olds and Ruth Duskin Feldman; of Adult Development and Aging, now in its second edition, with Harvey L. Sterns, Ruth Duskin Feldman, and Cameron J. Camp; of Psychology with Sally Wendkos Olds; and of Child Development: A Topical Approach with Dana Gross and Ruth Duskin Feldman.

Sally Wendkos Olds is an award-winning professional writer who has written more than 200 articles in leading magazines and is the author or coauthor of seven books addressed to general readers, in addition to the three textbooks she has coauthored with Dr. Papalia. Her newest book, A Balcony in Nepal: Glimpses of a Himalayan Village, describes her encounters with the people and way of life in a remote hill village in eastern Nepal. The updated and expanded third edition of her classic book The Complete Book of Breastfeeding was published in 1999. She is also the author of The Working Parents' Survival Guide and The Eternal Garden: Seasons of Our Sexuality and the coauthor of Raising a Hyperactive Child (winner of the Family Service Association of America National Media Award) and Helping Your Child Find Values to Live By. She has spoken widely on the topics of her books and articles to both professional and lay audiences, in person and on television and radio. She received her bachelor's degree from the University of Pennsylvania, where she majored in English literature and minored in psychology. She was elected to Phi Beta Kappa and was graduated summa cum laude.

Ruth Duskin Feldman is an award-winning writer and educator. With Diane E. Papalia and Sally Wendkos Olds, she coauthored the fourth, seventh, and eighth editions of *Human Development* and the eighth and ninth editions of *A Child's World*. She also is coauthor of *Adult Development and Aging* and of *Child Development: A Topical Approach*. A former teacher, she has developed educational materials for all levels from elementary school through college and has prepared ancillaries to accompany the Papalia-Olds books. She is author or coauthor of four books addressed to general readers, including *Whatever Happened to the Quiz Kids? Perils and Profits of Growing Up Gifted*, republished in 2000 by iUniverse. She has written for numerous newspapers and magazines, has lectured extensively, and has made national and local media appearances throughout the United States on education and gifted children. She received her bachelor's degree from Northwestern University, where she was graduated with highest distinction and was elected to Phi Beta Kappa.





To all those who have had an impact on our own development— our families and friends and teachers who have nurtured us, challenged us, taught us by their example, provided support and companionship, and been there for us over the years.



Dana Gross, chief consultant to this edition, is an associate professor of psychology at St. Olaf College. She received her bachelor's degree, majoring in psychology, from Smith College and her Ph.D. in child psychology from the Institute of Child Development at the University of Minnesota. Her broad teaching and research interests include perception, language, cognition, and social cognition, as well as cross-cultural child development. She has published articles in such professional journals as Child Development, Cognitive Development, Educational Gerontology, and the International Journal of Behavioral Development and has presented her work at numerous conferences. She has also published chapters in edited books, including Developing Theories of Mind and Play & Culture Studies (Vol. 5). In addition to membership in several national professional societies, Dr. Gross serves on the Governing Council of the Minnesota Psychological Association and is a founding member of its Division of Academic Psychology. Dr. Gross has prepared instructor's manuals and test banks for several McGraw-Hill textbooks and served as chief consultant on the previous edition of Human Development and the eighth and ninth editions of A Child's World. She is coauthor, with Dr. Papalia and Ruth Duskin Feldman, of Child Development: A Topical Approach.

Preface

n the previous, eighth edition, of *Human Development* we completely revamped the entire book—its design, content, and pedagogical features. In this ninth edition we have built on the innovations of the last edition, updating, consolidating, and fine-tuning. At the same time, we have sought to retain the engaging qualities of tone, style, and substance that have contributed to this book's popularity over the years.

Our Aims for This Edition

The primary aims of this ninth edition are the same as those of the first eight: to emphasize the continuity of development throughout the life span; to highlight the interrelationships among the physical, cognitive, and psychosocial realms of development; and to integrate theoretical, research-related, and practical concerns.

A special goal for this edition has been to *enhance coverage of the adult years* while *reducing overall length*. We have striven to make each chapter as concise and readable as possible, while still doing justice to the vast scope and significance of current theoretical and research work.

The Ninth Edition: What's New?

Organizational Changes

There are two major approaches to the study of human development: the *chronological approach* (describing all aspects of development at each period of life) and the *topical approach* (focusing on one aspect of development at a time). For this book we have chosen the *chronological* approach, which provides a sense of the multifaceted sweep of human development, as we get to know first the developing person-to-be in the womb, then the infant and toddler, then the young child, the schoolchild, the adolescent, the young adult, the adult at midlife, and the person in late adulthood.

In line with our chronological approach, we have divided this book into nine parts. After Part One, which introduces the study of human development, Parts Two through Eight discuss physical, cognitive, and psychosocial development during each of the periods of the life span, concluding with Part Nine, the end of life.

In this edition, we have given special consideration to the *opening and concluding sections*. To make sure that students pay proper attention to important concepts formerly covered in a prologue, we have integrated this material into appropriate sections of Chapter 1. And we have extended our coverage of death and bereavement, from an epilogue to a full chapter.

New Pedagogical Features

In addition to the engaging biographical "Focus" vignettes that begin each chapter (see the Visual Walk-Through following this preface), we now end each chapter with a "Refocus" feature. This series of interpretive questions encourages students to think back over major chapter themes and their application to the famous person described in the opening vignette. We have also replaced a few of the vignettes with more contemporary or more appropriate subjects.

In the unique *Learning System* introduced in the eighth edition, we have changed the periodic marginal "Consider this . . ." feature to "What's Your View?" The new title more sharply challenges students to think critically or to apply what they have learned. Also, *marginal definitions* of key terms have been shortened and simplified, where necessary, for ease of retention.

Content Changes

Because we believe that all parts of life are important, challenging, and full of opportunities for growth and change, we provide evenhanded treatment of all periods of the life span, taking care not to overemphasize some and slight others. In line with the growing recognition of human development as a rigorous scientific enterprise, we have *broadened the research base* of each chapter, especially the chapters on adulthood, more extensively than ever before, taking special pains to draw on the most recent information available. We have added many tables and figures and have updated statistics throughout.

This edition continues to expand our *cultural* and *historical* coverage, reflecting the diversity of the population in the United States and around the world and how cultures change across time. Our photo illustrations show an ever greater commitment to depicting this diversity.

Among the important topics given new or greatly revised or expanded coverage, chapter by chapter, are the following:

Chapter I

- · New section on historical contexts of development
- Revised section on the science of human development, including methodological advances
- Expansion of six principles of Baltes's life-span developmental approach, placed at end of chapter for emphasis and summation

Chapter 2

- · Revised explanation of mechanistic and organismic models
- · Revised discussion of Bandura's social learning (social cognitive) theory
- Ethological approach now discussed as part of broader evolutionary/sociobiological perspective
- Expanded discussion of cognitive neuroscience perspective
- Inclusion of qualitative research methods

Chapter 3

- Revised discussions of genetic imprinting, the nonshared environment, and autism, including Asperger's syndrome
- · Updated discussion of prenatal environmental influences
- New Digging Deeper box on fetal welfare versus mothers' rights

Chapter 4

 Revised discussions of cesarean sections, low birthweight, infant mortality, sudden infant death syndrome, and infant feeding

Chapter 5

 Updated discussions of HOME (Home Observation for Measurement of the Environment) and infant information processing

Chapter 6

- New "Focus" vignette on the anthropologist Mary Catherine Bateson
- · Revised and expanded material on emotions, including nonorganic failure to thrive
- Inclusion of Rothbart's Infant Behavior Questionnaire and Children's Behavior Questionnaire for measuring temperament
- Expanded discussion of the father's role, including factors contributing to "responsible fathering"
- · Revised information on infant attachment
- · New information on implications of infants' reactions to the "still-face" procedure
- · New discussion of the "I-self" and "me-self"
- New information on effects of child care from the NICHD Early Child Care Research Network

Chapter 7

- · Revised material on nutrition and obesity
- · Updated information on the relationship between socioeconomic status and health
- · Revised and updated information on causality, theory of mind, and Early Head Start

Chapter 8

- New "Focus" vignette on the writer Isabel Allende
- · Updated material on cultural factors in parenting styles
- New Digging Deeper box on the case against corporal punishment

Chapter 9

- New "Focus" vignette on the polar explorer Ann Bancroft
- · Updated information on obesity and asthma
- · New Practically Speaking box on the homework debate
- · Material on methods of teaching reading moved from box to text

Chapter 10

- New information on effects of joint custody, relational aggression, and sibling relationships in various cultures
- Revised discussion of bullies and of living with gay and lesbian parents
- Revised discussion of stress, including children's reactions to the September 11 terrorist attacks

Chapter 11

- · New information on pubertal development and how family relations may affect it
- · Updated information on nutrition, obesity, body image, eating disorders, and drug use
- New section on teenage suicide plus new Practically Speaking box on suicide prevention
- New section on implications of adolescents' time use
- · Updated information on high school dropouts
- · New Window on the World box on "pubilect" (teenage dialect)
- · Material on working part time moved from box to text

Chapter 12

- · Revised discussion of adolescent sexuality, with updated statistics
- · Revised discussion of sex education, including abstinence programs
- · Updated statistics on sexually transmitted diseases
- Revised information on adjustment to parental divorce, including the role of genetic factors

Chapter 13

- · Updated health statistics
- · New section on genetic influences on health
- · Revised material on lifestyle factors and health

- Updated information on sexually transmitted diseases, assisted reproduction (moved from box to text), and college and work experiences
- · New Practically Speaking box on sleep deprivation

Chapter 14

 Updated information on sexual attitudes and behaviors, marital and nonmarital lifestyles, and becoming parents

Chapter 15

- · Updated material on health and influences on it
- · Updated discussion of hormone replacement theory and phytoestrogens
- · New material on breast cancer and hysterectomy
- Revised material on stress, including New Yorkers' reactions to the September 11 terrorist attacks

Chapter 16

- Revised information on parents' relationships with grown children, including the "cluttered nest"
- Critique of the presumed prevalence of the "sandwich generation"

Chapter 17

- Updated information on the aging population and on life expectancy, including regional, ethnic, and gender differences; material on centenarians moved from box to text
- · Updated research findings on effects of dietary restriction on life extension
- Updated information on health status, influences on health, and health-threatening conditions, including Alzheimer's disease
- New Digging Deeper box: "Do 'Anti-Aging' Remedies Work?"

Chapter 18

- · Updated material on religion and well-being in late adulthood
- · Updated discussions of trends in late-life work, retirement, and living arrangements

Chapter 19

- · New "Focus" vignette on Louisa May Alcott
- · Expanded coverage of all topics
- · New section on mourning a miscarriage
- · New Digging Deeper box on "ambiguous loss"
- · New Window on the World box on organ donation

Supplementary Materials

Human Development, ninth edition, is accompanied by a complete learning and teaching package, keyed into the Learning System. Each component of this package has been thoroughly revised and expanded to include important new course material.

For the Instructor

Instructor's Manual

Saundra K. Ciccarelli, Gulf Coast Community College

Designed specifically for the ninth edition, this manual contains materials and resources for the instructor's use in teaching topics from each of the nineteen chapters of the text. Each chapter in the *Instructor's Manual* begins with the Total Teaching Package Outline, a table that coordinates subject matter within the chapter with the various features in the manual, including the Guideposts for Study, lecture suggestions, classroom activities and demonstrations, film and video suggestions, and web resources. Also included is a detailed Chapter Outline with key terms and definitions as stated in the text; Guideposts for Study, which are also in the main text, as well as in the test bank and study guide; lecture openers; critical thinking exercises; essay questions and answers; activities; and ideas for independent study. Updated audio/visual

resources, suggested readings, and web resources are also included. New to this edition of the *Instructor's Manual* are activities that are specifically geared to education majors and future nurses and health care workers. Also new to this edition is a section of observation, lab, and interview projects, which relate to each chapter's content. The *Instructor's Manual* is available on the instructor's side of the Online Learning Center (http://www.mhhe.com/papaliah9) and on the Instructor's Resource CD-ROM. It is also available in hard copy on request from your local McGraw-Hill representative.

Test Bank

Barbara Lane Radigan, Community College of Allegheny County

This comprehensive test bank includes a wide range of multiple-choice, fill-in-the-blank, critical thinking, and essay questions. Each chapter has approximately 100–125 test questions per chapter. Questions are organized around the Guideposts for Study, as presented in the main text. Each item is designated as factual, conceptual, or applied, and includes the answer, the appropriate Guidepost designation, the page in the main text where the information is located, and the question's level of difficulty.

The test bank is available in both printed and computerized format. The computerized test bank is available on the Instructor's Resource CD-ROM (IRCD), and is compatible with both Macintosh and Windows platforms. The program provides an editing feature that enables instructors to integrate their own questions, scramble items, and modify questions, as well as offering the instructor the option of implanting the following features unique to this program: Online Testing Program, Internet Testing, and Grade Management.

Instructor's Resource CD-ROM

This CD-ROM offers instructors the opportunity to customize McGraw-Hill materials to prepare for and create their lecture presentations. Among the resources included on the CD-ROM are the instructor's manual; the test bank in computerized, Word, and Rich Text formats; PowerPoint slides; as well as a link to the Online Learning Center, interactive exercises, and other useful features.

Visual Asset Database

Jasna Jovanovic, University of Illinois-Urbana-Champaign

McGraw-Hill's Visual Assets Database is a password-protected online database of hundreds of multimedia resources for use in classroom presentations, including original video clips, audio clips, photographs, and illustrations—all designed to bring to life concepts in developmental psychology. In addition to offering ready-made multimedia presentations for every stage of the lifespan, the VAD's search engine and unique "My Modules" program allows instructors to select from the database's resources to create their own customized presentations, or "modules." These customized presentations are saved in an instructor's folder on the McGraw-Hill site, and the presentation is then run directly from the VAD to the Internet-equipped classroom.

Annual Editions: Human Development (03/04)

Karen L. Freiberg, University of Maryland

This annually updated reader is a compilation of carefully selected articles from magazines, newspapers, and journals. This title is supported by Dushkin Online, a student website that provides study support and tools and links to related sites. An *Instructor's Manual* and *Using Annual Editions in the Classroom* are available as support materials for instructors.

Sources: Notable Selections in Human Development (2/e)

Rhett Diessner and Jacquelyne K. Tiegs, Lewis Clark State College

This book includes more than forty book excerpts, classic articles, and research studies that have shaped the study of human development and our contemporary understanding of it. Students of human development will appreciate the broad range of coverage and the accessibility of the material within this volume. An accompanying *Instructor's Manual* is also available.

Online Learning Center

http://www.mhhe.com/papaliah9

This extensive website, designed specifically to accompany *Human Development*, offers a variety of resources for both instructors and students. The password-protected instructor side of the site includes the *Instructor's Manual*, PowerPoint slides, links to professional resources, and interactive activities. The Online Learning Center also includes PowerWeb. PowerWeb is a password-protected website that includes current articles, weekly updates with assessment, informative and timely world news, web links, interactive exercises, and much more.

For the Student

Study Guide

Saundra K. Ciccarelli, Gulf Coast Community College

This comprehensive study guide is organized by chapter and integrates the Guideposts for Study found in the main text. It is designed to help students make the most of their time when reviewing the material in the text and studying for exams. The study guide includes a variety of self-tests, including true/false, multiple-choice, and essay questions.

Online Learning Center

http://www.mhhe.com/papaliah9

This extensive website, designed to accompany *Human Development*, offers a wide variety of resources for both instructors and students. The student side of the website includes the Guideposts for Study, chapter outlines, and a variety of self-quizzes. The site also includes a glossary of the key terms in the book, a list of helpful and informative websites related to topics highlighted in the text, an Internet guide, a guide to doing electronic research, and a study skills primer. The Online Learning Center also includes PowerWeb. PowerWeb is a password-protected website that includes current articles, weekly updates with assessment, informative and timely world news, web links, interactive exercises, and much more. A PowerWeb access card is free with each copy of the text.

Multimedia Courseware for Child Development

Charlotte J. Patterson, University of Virginia

This interactive CD-ROM covers central phenomena and classic experiments in the field of child development. Included are hours of video footage of classic and contemporary experiments, detailed viewing guides, challenging follow-up and interactive feedback, graduated developmental charts, a variety of hands-on projects, and related websites and navigation aids.

Multimedia Courseware for Adult Development

Carolyn Johnson, Pennsylvania State University

This interactive CD-ROM showcases video clips central to phenomena in adult development. The CD-ROM includes hours of video footage of classic and contemporary experiments, detailed viewing guides, challenging follow-up and interactive feedback, graphics, graduated developmental charges, a variety of hands-on projects, and related websites and navigation aids.

Acknowledgments

Once again, Dana Gross, Ph.D., associate professor of psychology at St. Olaf College in Northfield, Minnesota, has served as consultant for this edition, helping us keep up with the latest findings in a rapidly expanding field. Dr. Gross not only

uncovered many new references, but also participated in the planning of this revision and read and commented on the manuscript. She also prepared the links to relevant websites for material related to boxes in each chapter, to be found on the Online Learning Center. Her current classroom experience provides a valuable perspective on the needs of students today. In addition, as a parent of two young children, she rounds out an author team that consists of the parent of an adolescent and two grandparents whose children are now young and middle-aged adults. (Detailed information about Dr. Gross's career can be found on the dedication page.)

We would like to express our gratitude to the many friends and colleagues who, through their work and their interest, helped us clarify our thinking about human development. We are especially grateful for the valuable help given by those who reviewed the eighth edition of *Human Development* and the manuscript drafts of this ninth edition, whose evaluations and suggestions helped greatly in the preparation of this new edition. These reviewers, who are affiliated with both two- and four-year institutions are as follows:

1110	stitutions are as follows.	
Ga	ary L. Allen,	Lynn Haller,
Ur	niversity of South Carolina	Morehead State University
M	argarita Azmitia,	Sarah Huyvaert,
Ur	niversity of California–Santa Cruz	Eastern Michigan University
Da	aniel E. Bontempo,	Francene Kaplan,
Th	ne Pennsylvania State University	Cypress Community College
Yiv	wei Chen,	Rosalyn M. King,
Bo	wling Green State University	Northern Virginia Community (
Jer	nnie Dilworth,	Jerry A. Martin,
Ge	eorgia Southern University	University of North Florida
Ra	ymond E. Eilenstine,	Pamela S. Maykut,
So	utheastern Community College	Viterbo University
Be	verly A. Farrow,	Jim Hail,
M_{ℓ}	arshall University	McLennan Community College

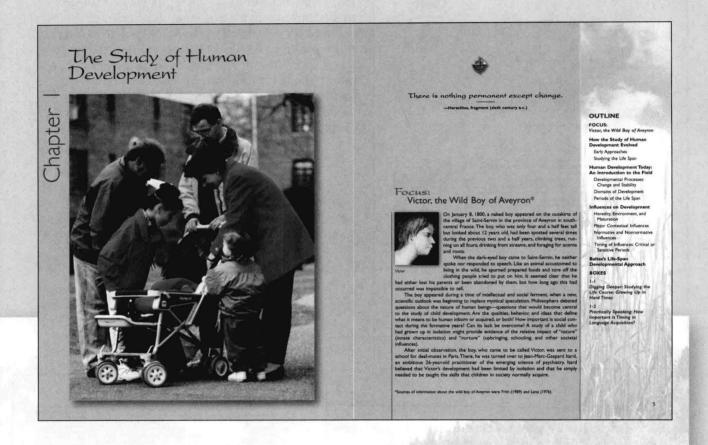
Lynn Haller,	Rosemary Rosser,
Morehead State University	University of Arizona-Tucson
Sarah Huyvaert,	Jill Schultz,
Eastern Michigan University	Frederick Community College
Francene Kaplan,	Kaia Skaggs,
Cypress Community College	Eastern Michigan University
Rosalyn M. King,	Marilynn Thomas,
Northern Virginia Community College	Prince George's Community College
erry A. Martin,	Stephen A. Truhon,
University of North Florida	Winston-Salem State University
Pamela S. Maykut,	Lori Werdenschlag,
Viterbo University	Lyndon State College

We appreciate the strong support we have had from our publisher through the years. We would like to express special thanks to Rebecca Hope, our sponsoring editor; Sienne Patch, developmental editor; Rick Hecker, project manager; Laurie McGee, copy editor; Dave Welsh, supplement producer; Maggie Barbieri, print supplement manager; and our research assistant, Leilani Gjellstad Endicott. Toni Michaels used her sensitivity, her interest, and her good eye to find outstanding photographs. Maureen McCutcheon produced a strikingly new and attractive book design.

As always, we welcome and appreciate comments from readers, which help us continue to improve *Human Development*.

Diane E. Papalia Sally Wendkos Olds Ruth Duskin Feldman

Visual Walk-Through

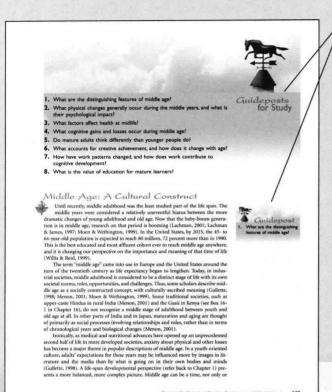


special goal for this edition, like the previous one, has been to increase its pedagogical value. The single-column format has made it possible to introduce a comprehensive, unified Learning System, which will help students focus their reading and review and retain what they learn.

As always, we seek to make the study of human development come alive by telling illustrative stories about actual incidents in the lives of real people. In this edition, each chapter opens with a fascinating biographical vignette from a period in the life of a well-known person (such as Elvis Presley, Isabel Allende, Anne Frank, Jackie Robinson, John Glenn, and Mahatma Gandhi) or a classic case (such as the Wild Boy of Aveyron and Charles Darwin's diary of his son's first year). The subjects of these vignettes are people of diverse national and ethnic origins, whose experiences dramatize important themes in the chapter. We believe students will enjoy and identify with these stories, which lead directly into the body of the chapter, are woven into its fabric, and are revisited in the new Refocus feature at the end of each chapter. These vignettes, along with the shorter true anecdotes that appear throughout the book—some of them about the author's own children and grandchildren—underline the fact that there is no "average" or "typical" human being, that each person is an individual with a unique personality and a unique set of life circumstances. They are reminders that whenever we talk about human development, we talk about real people in a real world.

Learning System

The Learning System forms the conceptual framework of each chapter and is carried through all text supplements. It has the following four parts.



Guideposts for Study

These topical questions, similar to Learning Objectives, are first posted near the beginning of each chapter to capture students' interest and motivate them to look for answers as they read. The questions are broad enough to form a coherent outline of each chapter's content, but specific enough to invite careful study. Each Guidepost is repeated in the margin at the beginning of the section that deals with the topic in question and is repeated in the Chapter Summary to facilitate study.

Checkpoints

These more detailed marginal questions, placed at or near the end of major sections of text, enable students to test their understanding of what they have read. Students should be encouraged to stop and review any section for which they cannot answer one or more Checkpoints.

Children who are socially withdrawn or isolated may be overly concerned about

Children who are socially withdrawn or solated may be overly concerned about their performance in social situations. They may attribute rejection to their own per-sonality deficiencies, which they believe they are helpless to change. Rather than try-ing new ways to gian approval, they repeat unsuccessful strategies or just give up. (This is similar to the "helpless pattern" in younger children, described in Chapter 8.) Children with high self-enterm, by contrast, tend to attribute failure to factors outside themselves or to the need to try harder. If initially unsuccessful, they persevere, trying new strategies until they find one that works (Erdley et al., 1997).

new strategies until they find one that works (Erdley et al., 1997).

Emotional Growth

As children grow older, they are more aware of their own and other people's feelings. They can better regulate their emotional expression in social situations, and they can respond to other's emotional distress (Samri et al., 1988).

By age 7 or 8, shame and pride, which depend on awareness of the implications of their actions and on what kind of socialization children have received, affect their opinion of themselves (Hatter, 1993, 1996). Increasingly, children can verbalize conficing emotions (see Table 10-1). As Lias says, "Most of the boys at school are pretty yakky; I don't feel that way about my little brother lason, although the does get on my surves. I love him but at the same time, he also does thing that make me mad. But I control my temper. I'd be ashamed of myself I'd iddn't (Hatter, 1996, p. 208).

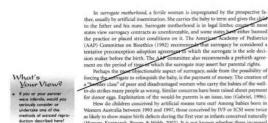
Children become more empathic and more inclined to prosocial behavior in middle childhood. Prosocial behavior is a sign of positive adjustment. Prosocial children end to act appropriately in social situations, to be relatively free from negriave emotion, and to cope with problems constructively (Elsenberg, Eules, & Murphy, 1996).

Control of negriave emotions is an aspect of emotional growth. Children learn what makes them angy, fearful, or sad and how other people react to a display of these



Level	Approximate Age	What Children Understand	What a Child Hight Say
Level 0	3-6 years	Children do not understand that any two feelings can coexist. They cannot even acknowledge feeling two similar emotions at once (such as mad and sad).	Carlos says, "You can't have two feelings at the same time because you only have one mind!"
Level I	6-7 years	Children are developing separate categories for positive and negative emotions. They can be aware of two emotions at the same time, but only if both are either positive or negative and are directed toward the same target.	Kayla says, "If my brother hit me, I would be mad and sad."
Level 2	7-8 years	Children can recognize having two feelings of the same kind directed toward different targets. However, they cannot acknowledge holding contradictory feelings.	Dominic says,"I was excited about going to Mexico and glad to see my grandparents. I wasn't scared; I couldn't feel glad and scared a the same time; I would have to be two people at once!"
Level 3	8-10 years	Children can integrate sets of positive and nega- tive emotions. They can understand having con- trary feelings at the same time, but only if they are directed toward different targets.	Ashley can express a negative feeling toward her baby brother ("I was mad at Tony, so I pinched him") and a positive feeling toward her father ("I was happy my father didn't spank me"), but she cannot recognize that she has positive and negative feelings (anger and love) toward both
Level 4	II years	Children can describe conflicting feelings toward the same target.	Lisa says. "Tim excited about going to my new school, but I'm a little scared too."

ter 10 Psychosocial Development in Middle Childhood



The days residently people as wording, summer to a min such colored, 1990-10 of comor eggs. Exploitation of the words in societies as an issue, not (Cabriel, 1990-10) of comor eggs. Exploitation of the words are sufficiently assess that it is not all the people as the people of the

COGNITIVE DEVELOPMENT

Perspectives on Adult Cognition

Common sense tells us that adults think differently from children or adolescents. They hold different kinds of conversations, understand more complicated materials, and use their broader experience to solve practical problems. Is common second converted Developmental theorists and researches have studied adult cognition from a variety of perspectives. Some investigators, such as K. Warner Schaie, take a stage approach, seeking to identify what talk distinctive about the very adults think, as Plaget did for children's thinking. Other investigators, such as Robert Sternberg, focus on types of appears of inclingence, overloaded by psychometric tests, that ted to come to the focus in adulthood. One current theory highlights the role of emotion in intelligent behavior.

Beyond Piaget: The Shift to Postformal Thought

DEVOND FIABLE: I No Shift to Postformal Thought
Although Paged tescribed the stage of formal operations as the pinnacle of cognitive
achievement, some developmental scientists maintain that changes in cognition extend beyond that stage. According to Plaget's critics, formal reasoning is not the only, and perhaps not even the most important, capability of mature thought (Moshman,
1998). Research and theoretical work since the 1970s suggest that mature thinking may

Part 6 Young Adulthon

Can you . . .

Discuss ways to control the spread of STDs?

What's Your View?

These periodic marginal questions challenge students to interpret, apply, or critically evaluate information presented in the text.

Summary and Key Terms

As in previous editions, the Chapter Summaries are organized by the major topics in the chapter. In this edition, the Guidepost questions appear under the appropriate major topics. Each Guidepost is followed by a series of brief statements restating the most important points that fall under it, thus creating a self-testing question-answer format. Students should be encouraged to try to answer each Guidepost question before reading the summary material that follows. Key Terms are now listed under each Guidepost summary with the pages on which their definitions can be found.

SUMMARY AND KEY TERMS

- ally transmitted diseases (STDs) (433)

Guidepost 5. How typical is "adolescent

ndships, especially among girls, become more intimate and portive in adolescence.

Chapter 12 Psychosocial Development in Adolescence



"Practically Speaking" Boxes

These boxes build bridges between academic study and everyday life by showing ways to apply research findings on various aspects of human development. Among the new, expanded, or substantially updated topics are the homework debate, suicide prevention, and sleep deprivation.

We also provide a number of other new and/or enhanced teaching and learning aids:

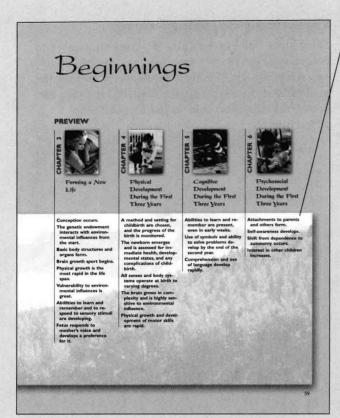
Part Overviews

At the beginning of each part, an overview introduces the period of life discussed in the chapters that follow.

Linkups to look for-

The part overviews include bulleted lists that point to examples of the interaction of physical, cognitive, and psychosocial aspects of development.





Part Preview Tables

These tables, visually keyed to each chapter of the text, preview the main features of each period of development. The contents of the part preview tables are coordinated with Table 1-1 in Chapter 1, which summarizes major developments of each period of the life span.

Chapter-Opening Outlines

At the beginning of each chapter, an outline previews the major topics included in the chapter.

Chapter-Opening Vignettes

Biographical vignettes from the lives of well-known people illustrate chapter themes.

