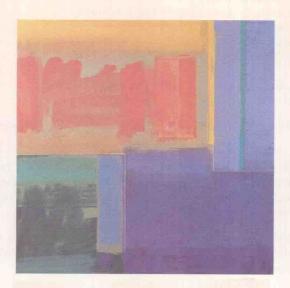


LESTER A. LEFTON LINDA BRANNON

Psychology

Eighth Edition





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Psychology

Preface

he completely revised eighth edition of *Psychology* is the result of a new and exciting partnership between Linda Brannon—the author of *Gender* (third edition, Allyn & Bacon) and co-author of a textbook on health psychology—and me, Lester Lefton. Linda's expertise in the fields of diversity and gender studies has been essential to the substantial integration of these issues in the eighth edition. Moreover, her engaging writing style and fresh approach to the field of general psychology have greatly enhanced every subject covered in the book. Together, we thoroughly updated and rewrote every chapter in order to bring the eighth edition of *Psychology* into the 21st century and to address the most recent topics and concerns in the field today.

Why This Book Was Written

The goal of this book is to help students appreciate the exciting field of psychology, to increase their knowledge, and to stimulate their interest and understanding of human behavior and mental processes. The complexity of psychology makes the task hard, but our love for this discipline makes the task a joy. To share our enthusiasm and appreciation for psychology, we have chosen to focus on four themes that help explain and present psychology.

Four Major Themes

The 21st-century world is diverse and increasingly more connected. Issues of diversity crop up everywhere in the field of psychology and help make it the varied, complicated, and challenging field that it is. We use the following themes to organize our presentation of diversity and interconnection in psychology:

- the complex relationship between nature and nurture
- the changing impact and definition of diversity
- the importance of evolutionary and biological topics within the field of psychology
- the relevance of psychology in students' everyday life and the importance of critical thinking

What's New in the Eighth Edition and Why

Because it is so important to keep current with new directions in psychology, we have totally rewritten the book based on our colleagues' reviews of the previous edition as well as reviews of our competitors. Though the seventh edition of *Psychology* was very well received by both students and the instructors, we felt that the eighth edition needed substantial revision in order to stay attuned to the needs of students and professors in the upcoming years. To achieve this goal, we wrote completely new opening stories that focus on current news events, updated or completely rewrote all the boxed features, and stayed up-to-date on new research and theories—making the eighth edition as current as possible.

Our Goals: Be an Active Learner

Because Linda and I both teach introductory psychology, we remain engaged with the course material and have, for years, experimented with various presentation methods. We share a mutual goal: to encourage the student to *be an active learner*. To accomplish this in the eighth edition, we did the following:

- Used a personal voice in our writing and shared our own points of view on various aspects of the field
- Added a new text feature called Be an Active Learner to encourage students to become actively involved in the learning process, to be responsible for their own learning, and to make psychology meaningful by linking information they are learning to their own life experiences, which is a theme of our text
- Emphasized and expanded upon aspects of psychology that might be particularly relevant to students' lives in a new feature called Psychology in Action
- Added a new Point/Counterpoint feature to each chapter, encouraging students to actively consider psychological controversies on their own
- Included interactive figures, labeled For the Active Learner
- Let real-life students and recent grads tell how they use psychology in their own lives in a new feature called Student Voices

New Features to the Eighth Edition

We also updated all the features in the book and added several brand-new features for the eighth edition.



Point/Counterpoint

The new Point/Counterpoint feature focuses on controversial issues in psychology, such as ethics in animal research, whether men are naturally promiscuous, whether homosexuality is biologically based or learned, and whether Ritalin really helps people with ADHD. We discuss both sides of the issue and present the latest research results.

Chapter	1	Research	with	Nonhuman	Animals

Chapter 2 Gender and Promiscuity

Chapter 3 Ritalin-Use or Abuse?

Chapter 4 Adolescent Medical Decision Making

Does Subliminal Advertising Work? Chapter 5

Chapter 6 Is Hypnosis an Altered State of Consciousness?

Chapter 7 Men and Women—Differences in Learning?

Chapter 8 Recovered Memories

Chapter 9 Can Computers Think?

Chapter 10 One or Many Intelligences?

Chapter 11 The Basis of Homosexuality

Chapter 12 Freud's Continuing Relevance to Psychology

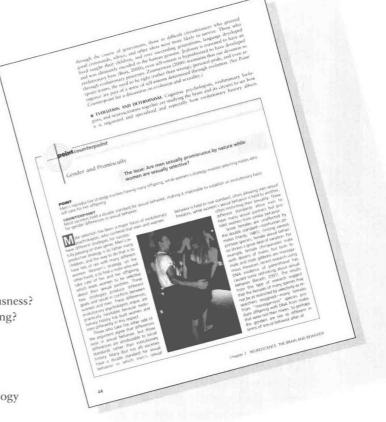
Chapter 13 Do Television Program Content Rating Systems Work?

Chapter 14 Alternative Medicine

Chapter 15 Multiple Personality Disorder—Is It Real?

Chapter 16 Controlled Drinking and Alcoholism

Chapter 17 The Internet and Social Isolation



Be an Active Learner

Be an Active Learner reminds students to pause, answer questions, and think about what they have just learned. Some questions review material the students have just read, others encourage students to think critically, yet others ask students to apply what they have learned to their own lives.



Introduction to Research Basics

We believe that research is a cornerstone of psychology, and the eighth edition of Psychology reflects an increased emphasis on its role. We reviewed every citation from the seventh edition and revised and updated all citations that correspond to the latest research in the field. We kept citations of classic studies from the history of psychological research.

We also believe that the research method should be contextualized within a book and that it is more important to focus on the analysi process rather than on actual data. To accompli this, Linda Brannon has updated and rewritten research information that appeared in Chapter It now appears as a series of research lessons—c per chapter—called Introduction to Research Ba Each box highlights a different research method used in psychological research, and connects it v chapter-related content. These boxes, as a group stand as a series of lessons in research methodol

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Chapter 1	To Sleep, Perchance to Experiment
Chapter 2	Correlation Is Not Causation
Chapter 3	Understanding the Danger
Chapter 4	Sibling Influences During Early Adolescence
Chapter 5	Have You Ever Smelled a Color?
Chapter 6	Caught in a Maze
Chapter 8	Testing Very Long-Term Memory
Chapter 9	Acquiring a First Language
Chapter 10	Seeing What You Expect to See
Chapter 11	Sex Surveys
Chapter 12	Are Personality Traits Stable?
Chapter 13	Internet Use and Sociability
Chapter 14	Racism and Reactivity
Chapter 15	Cross-Cultural Factors in a Diagnosis
Chapter 16	Prevention Instead of Treatment?
Chapter 17	Sex Discrimination in
	Employment Interviews

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Study

Design Experimental Case Study Experimental Meta-Analysis



Psychology in Action

Psychology in Action boxes focus on how psychology can be applied to everyday life. We want students to leave their general psychology class with more than just memorized facts; we want them to gain a pronounced appreciation for the relationship between the theory they have learned and the lives they are leading.

Using Psychological Knowledge
to Improve Performance
Left-Handed in a Right-Handed World
Children Read Emotional Cues Well
Gender Stereotypes
The Legacy of Divorce
Sentenced to Meditate
Getting Rid of Phobias
Creating Fluid, Flexible Thinking
Improving Justice
Be a Critical Thinker
Deaf People and Cochlear Implants
The Abecedarian Intervention
Lie Detectors and Emotion
Seeing Violence, Doing Violence
Why We Listen to What "They" Say
Psychology and the Aftermath of
September 11
Preventing Suicide
Choosing a Therapist
A Token Economy



Student Voices

Student Voices is a new feature, found in the margins of the text. Current college students and recent graduates discuss why studying psychology is important to them and how they actively apply it in their own lives.

Chapter 17 Who Is at Risk for Excessive Drinking?

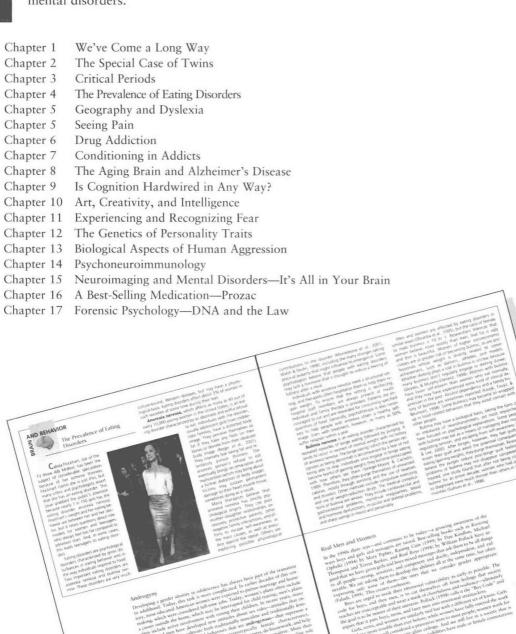


Features That Have Stood the Test of Time

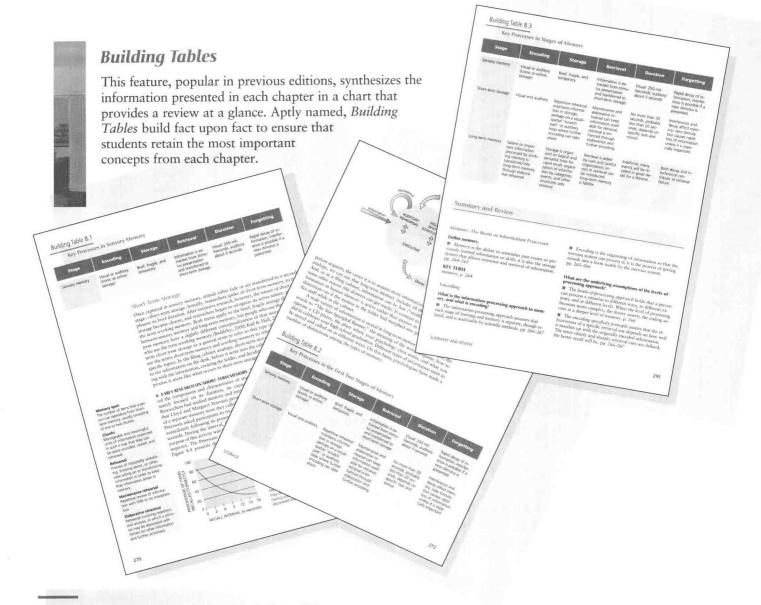
Brain and Behavior

xviii

The *Brain and Behavior* box reinforces one of the main themes of the text: the important role of biological and evolutionary topics within the rapidly changing field of psychology. The box introduces students to the role of recent research and touches upon topics such as geography and dyslexia, the aging brain and Alzheimer's disease, and neuroimaging and mental disorders.



Preface



Reorganization of the Eighth Edition

The chapters on child development and on adolescent and adult development now follow the chapter on brain and behavior, in order to underscore the importance of development in the study of psychology and to introduce the complex relationship between nature and nurture. However, every chapter in the book has been written so that it can either stand alone or be read in sequence with others. Also, every chapter has been rewritten with the aim of providing a more structured approach, with a smoother, more cohesive flow of information. We have attempted to match the internal structure of each chapter with the way teachers present material.

Twentieth-Century American Artwork

Art and psychology can both be viewed as windows to the soul. The eighth edition capitalizes on this connection by drawing students into each chapter through the visual language of the 20th-century American artist. A carefully chosen piece of art appears at the beginning of each chapter, representing the glorious diversity of modern psychology. The art selections span the portfolios of a varied group of 20th-century artists. Both men and women are represented, as well as artists of various ethnicities and those who are famous as well as less well known. The idea is this: When students view the works of artists such as Jonathan Greene, Ruby Pearl, Andy Warhol, Margarett Sargent, and Jacob Lawrence, we want them to *feel* psychology as it moves through our modern age.

Preface

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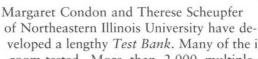
Supplements for Instructors

The Instructor's Resource Manual, written by Melvyn B. King of State University of New York-Cortland and Debra E. Clark, has been completely revamped for this edition. Each chapter begins with a valuable grid correlating the text to every print and media supplement available. King and Clark continue to correlate ancillary materials and instructor resources throughout their detailed lecture outlines. In addition, the Instructor's Resource Manual contains a wealth of

activities, handouts, and numerous addi-

tional teaching aids.





veloped a lengthy Test Bank. Many of the items have been classroom-tested. More than 2,000 multiple-choice questions are available; to make the items more challenging to students, the authors have added a fifth answer option to each question. In addition, they have crafted numerous true/false, short answer, and longer essay questions to flesh out this robust Test Bank, which is also available on a dual platform CD-ROM. This computerized version is available with Tamarack's easy-touse TestGen software, which lets you prepare tests for printing as well for network and online testing and has full editing

capability for Windows and Macintosh.

The Allyn & Bacon Introduction to Psychology Transparency Set contains 200 fullcolor transparencies and is available upon adoption of the text from your local Allyn & Bacon sales representative.

The Allyn & Bacon Interactive Video, a 90-minute tape with on-screen critical thinking questions, has been developed to accompany Psychology. The accompanying video user's guide offers suggestions for using the video in class and contains a summary of each video segment.

Course Compass, BlackBoard, WebCT—Allyn & Bacon's course management systems combine premium online content with enhanced class management tools such as quizzing and grading, syllabus building, and results reporting. See www.abinteractive.com for more information.

The Digital Media Archive 3.0 is a CD-ROM that contains hundreds of full-color digitized images, as well as video clips, audio clips, web links, activities, and lecture outlines to enhance introductory psychology lectures.

A PowerPoint CD-ROM presentation for Windows, which includes an electronic copy of the Instructor's Resource Manual, as well as a link to the book's companion website, was prepared by Albert M. Bugaj of University of Wisconsin-Marinette and is available to adopters of the book.

A Companion Website was designed to accompany this eighth edition. Access is available with the purchase of a new textbook; available on this free site is an online study guide, which includes chapter learning objectives and multiple-choice questions. The site also contains video, interactive activities, and web links. See www. ablongman.com/lefton8e for a sample of the site.

Mind Matters CD-ROM was developed by James Hilton of the University of Michigan and Charles Perdue of West Virginia University, this CD-ROM is available to be packaged with your text. A unique learning tool, the CD-ROM helps students explore psychology by combining interactivity with clear explanation, fostering active learning and reinforcing core concepts. Visit www.abacon.com/mindmatters for sample activities. Both a print copy and a downloadable copy of a Faculty Guide are available.

Allyn & Bacon Video Library makes available to instructors an extensive videotape library. Please see your local Allyn & Bacon sales representative for details regarding the video policy.

Supplements for Students

Grade Aid, a workbook by Andy Ryan, a police psychologist who teaches at the University of South Carolina, actively involves students in the learning process. For each chapter, Grade Aid features chapter summaries, learning objectives, activities and exercises, practice tests, and short answer/essay questions, to help students grasp the concepts in the text.

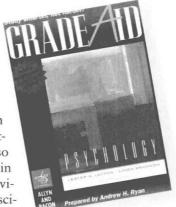
iSearch for Psychology contains material on conducting web searches and critically evaluating and documenting Internet sources. It also contains material specific to using the Internet in the study of psychology through Internet activities, as well as lists of URLs related to the discipline. The iSearch also contains an access code for entrance to ContentSelect, Pearson Education's online database of peer reviewed and discipline-specific journals. Students can conduct online research

Psych Tutor, a service of Allyn & Bacon, provides free tutoring for students who purchase a new text.

anywhere and any time they have an internet connection.

Qualified college psychology instructors tutor students on all material covered in the text, including art and figures. The Tutor Center provides tutoring assistance by phone, fax, e-mail, and the Internet, during Tutor Center hours. Students who bought used books can purchase the Psych Tutor for \$25 at www.aw.com/tutorcenter.

Premium Resource CD combines a compilation of chapter-specific video clips with critical thinking questions, and links directly to the companion website. Clips include coverage of such topies as the human genome project, anorexia, alcoholism in teens, a gender study, hypnosis, lucid dreaming, phobias, and more.



Acknowledgments

We thank the following people who prepared special marketing reviews to assist us in gauging trends in the field and to provide us with their own valuable input to our draft manuscript of the eighth edition:

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We have friends and relatives who have supported and inspired us in various ways through the years, and their love, encouragement, and friendship mean a great deal to us. I (LL) thank Gene and Lois Green, Al and Susan Waxenberg, Stephen and Nancy Guerrera, Marcy and Jason Mallett. I also thank Frank Provenzano, Len Rosen, Ed Caress, Sandi Kirschner, and Bill Barke—each in his or her own way has helped me enormously. I thank my friend, mentor, and teacher Arnold Rubin for his enduring support; his untimely passing has left a gulf in many people's lives. And my love to my daughters, Sarah and Jesse, who inspire and bring me pride every day.

Our spouses deserve special recognition. Linda Lefton and Barry Humphus have encouraged and supported us in this daunting task, and they deserve even more than the love and thanks that we offer. They are our friends, lovers, and spouses—they are our best friends. What more can we say?

Lester A. Lefton Linda Brannon

Two Careers in Psychology

love teaching psychology. I hope my students here at Tulane University like the way I do it. My teaching technique and style began over three decades ago. My career in psychology began with a survey of sexual attitudes that I conducted in high school. I passed out questionnaires to the juniors and seniors, who were to respond anonymously. Then I spent days poring over, collating, and summarizing the data—which I, of course, found fascinating.

At Northeastern University in Boston, I majored in psychology and was particularly interested in clinical psychology. I took courses in traditional experimental



psychology—learning, physiology, perception—but especially enjoyed abnormal psychology, child development, and personality. While in college, I worked in a treatment center for emotionally disturbed children. The work was hard, emotionally grueling, and stressful, and the pay wasn't particularly good—thus, the direct delivery of mental health services began to lose some of its appeal for me. Later, as a laboratory assistant, I collected and analyzed data for a psychologist doing research in vision. In contrast to my counseling experience, hunting for answers to scientific questions and collecting data were activities that held my interest.

My graduate studies at the University of Rochester included research in perception, and I studied visual information processing. In graduate school, my intellectual skills were sharpened and my interests were focused and refined. After earning my

PhD, I became a faculty member at the University of South Carolina. My research in cognitive psychology involved studying perceptual phenomena such as eye movements. Now at Tulane University, I teach, do research, and write psychology textbooks. My goal is to share my excitement about psychology in the classroom, in my textbooks, and in professional journals.

Over time, my interests have changed, as I'm sure yours will. At first, I was interested in the delivery of mental health services to children. Later, I focused on applied research issues, such as eye movements among learning-disabled readers. But my primary focus remains in basic research issues. My evolving interests have spanned the three major areas in which psychologists work: applied research, human services, and experimental psychology—topics I present throughout the text.

I am married to a wonderful woman and have two daughters. I have applied in my family life much of what I have learned in my profession. My family hasn't been angry about it, although from time to time my "psychologizing" about issues can be annoying, I'm sure. I'm an avid bicyclist and computer hacker and occasional photographer. My life has generally revolved around my work and my family—not

necessarily in that order. You'll probably gather that from many of the stories and examples I relate in this text.

I invite you to share in my excitement and my enthusiasm for psychology. Stay focused, read closely, and think critically. As you read, think about how the text relates to your own experiences—drawing personal connections to what you read will make it more meaningful. And please feel free to write me: Lefton@tulane.edu. Good luck!

Lester Lefton

y career in psychology began when I kept taking psychology courses as an undergraduate at the University of Texas at Austin. I was going to be a drama major, but I just couldn't stay away from the psychology courses because I was intrigued by how people understand the world in terms of language. Other areas of psychology, such as social psychology and child development, were almost equally exciting. Deciding which one to pursue was difficult, but I chose the program in human experimental psychology at the University of Texas at Austin.

During my years in graduate school, I was involved in researching language and cognitive processes. I spent many hours in the laboratory, collecting and analyzing data, and attempting to understand. The results of research studies fascinated me. I loved the data, and the printouts, and the patterns that the analyses revealed.

Toward the end of my doctoral studies, I got to teach a course in introductory psychology, and I also discovered that I loved teaching. When I finished my doctoral degree, I went to McNeese State University in Lake Charles, Louisiana. McNeese emphasizes teaching, and I taught a variety of courses, specializing in experimental psychology and biopsychology as well as continuing to teach introductory psychology.

In the early 1980s, I became interested in the developing field of health psychology. Along with Jess Feist, one of my colleagues in the department of psychology, I began to write a textbook for this new area. The result is *Health Psychology: An Introduction to Behavior and Health*, which is now in its fifth edition.

When I was a graduate student, a minority of students were women, but that situation changed, bringing changes to the entire field of psychology. It was exciting to be part of that transition and to watch women come into the discipline in large numbers. My research interest turned to gender issues, and an editor at Allyn and Bacon persuaded me that I should write a textbook on the topic. *Gender: Psychological Perspectives* is the result, and the course that I teach on the psychology of gender is one of my favorites.

I teach, do research in the area of gender, and write textbooks. In 1998, I was selected to be Distinguished Professor of the year at McNeese State University. I am married to a terrific guy, Barry Humphus, who has encouraged and helped me do things I did not think I could do, such as write three textbooks. I love movies (and movie trivia) and find wine both delicious and fascinating. I am an occasional hiker and reluctant jogger.

My students never stop teaching me, and I am grateful to them. Both Lester and I invite you to share our excitement and enthusiasm for psychology. If you want to tell me anything, contact me at *lbrannon@lightwire.net*.

Linda Brannon