

PSYCHOLOGY

in Everyday Life

fourth edition

DAVID G. MYERS

Hope College Holland, Michigan

C. NATHAN DEWALL

University of Kentucky Lexington, Kentucky



Vice President, Social Sciences: Charles Linsmeier

Executive Editor: Carlise Stembridge

Development Editors: Christine Brune, Nancy Fleming, Trish Morgan, Danielle Slevens

Assistant Editor: Katie Pachnos

Executive Marketing Manager: Katherine Nurre

Marketing Assistant: Morgan Ratner Executive Media Editor: Noel Hohnstine

Media Editor: Laura Burden

Media Editorial Assistant: Nik Toner Supplements Editor: Betty Probert

Director, Content Management Enhancement: Tracey Kuehn Managing Editor, Sciences and Social Sciences: Lisa Kinne

Project Editor: Won McIntosh

Director of Digital Production: Keri deManigold

Senior Media Producer: Chris Efstratiou

Media Producer: Eve Conte

Senior Production Supervisor: Sarah Segal

Senior Photo Editor: Robin Fadool

Photo Research Assistant: Candice Cheesman

Director of Design, Content Management: Diana Blume

Interior and Cover Design: Blake Logan

Cover Illustration: Evelyn Pence

Interior Illustrations: Shawn Barber, Keith Kasnot, Matthew McAdams, Evelyn Pence, Don Stewart

Art Manager: Matthew McAdams

Composition: MPS Limited

Printing and Binding: LSC Communications

Cover Photo: caracterdesign/Vetta/Getty Images

Chapter Opener Photo Credits for Contents: FilippoBacci/Getty Images; Cultura/Getty Images; DigitalVision/Getty Images; Blend Images/Getty Images; Adam Hester/Blend Images/Getty Images; E+/Getty Images; Caiaimage/Sam Edwards/OJO+/Getty Images; Blend Images/Getty Images; © Hero Images/Getty Images; Tetra Images/Getty Images; Taxi/Getty Images; Rex Features/AP Images; Delphine Le Berre/Moment Select/Getty Images; Ryan McVay/Stone/Getty Images

Library of Congress Control Number: 2016945699

ISBN-13: 978-1-319-01373-8 ISBN-10: 1-319-01373-2

Copyright © 2017, 2014, 2012, 2009 by Worth Publishers

All rights reserved.

Printed in the United States of America

First printing

David Myers' royalties from the sale of this book are assigned to the David and Carol Myers Foundation, which exists to receive and distribute funds to other charitable organizations.

Worth Publishers

One New York Plaza Suite 4500 New York, NY 10004-1562 MacmillanLearning.com

Brief Contents

Preface

Time Management: Or, How to Be a Great Student and Still Have a Life

CHAPTER 1

Psychology's Roots, Big Ideas, and Critical Thinking Tools

CHAPTER 2

The Biology of Mind and Consciousness

CHAPTER 3

Developing Through the Life Span

CHAPTER 4

Sex, Gender, and Sexuality

CHAPTER 5

Sensation and Perception

CHAPTER 6

Learning

CHAPTER 7

Memory

CHAPTER 8	
Thinking, Language, and Intelligence	
CHAPTER 9	
Motivation and Emotion	
CHAPTER 10	
Stress, Health, and Human Flourishin	9
CHAPTER 11	
Social Psychology	
CHAPTER 12	
Personality	
CHAPTER 13	
Psychological Disorders	
CHAPTER 14	
Therapy	
APPENDIX A	
Statistical Reasoning in Everyday Life	3
APPENDIX B	
Psychology at Work	
APPENDIX C	

Subfields of Psychology

APPENDIX **D**

Complete Chapter Reviews

APPENDIX E

Answers to Chapter Test Questions

Glossary

Glosario

References

Name Index

Subject Index

Contents

Preface

Time Management: Or, How to Be a Great Student and Still Have a Life



CHAPTER 1

Psychology's Roots, Big Ideas, and Critical Thinking Tools

Psychology's Roots

Psychological Science's Birth and Development

THINKING CRITICALLY ABOUT: The Scientific Attitude

Contemporary Psychology

Four Big Ideas in Psychology

Big Idea 1: Critical Thinking Is Smart Thinking

Big Idea 2: Behavior Is a Biopsychosocial Event

Big Idea 3: We Operate With a Two-Track Mind (Dual Processing)

Big Idea 4: Psychology Explores Human Strengths as Well as Challenges

Why Do Psychology?

The Limits of Intuition and Common Sense

How Do Psychologists Ask and Answer Questions?

The Scientific Method

Description

Correlation

Experimentation

How Would You Know Which Research Design to Use?

Predicting Everyday Behavior

Psychology's Research Ethics

Studying and Protecting Animals

Studying and Protecting Humans

Values in Psychology

Use Psychology to Become a Stronger Person—and a Better Student



CHAPTER 2

The Biology of Mind and Consciousness

The Brain: A Work in Progress

Neural Communication

A Neuron's Structure

How Neurons Communicate

How Neurotransmitters Influence Us

The Nervous System

The Peripheral Nervous System

The Central Nervous System

The Endocrine System

The Brain

Tools of Discovery—Having Our Head Examined

Older Brain Structures

The Cerebral Cortex

THINKING CRITICALLY ABOUT: Using More Than 10 Percent of Our Brain

The Power of Plasticity: Responding to Damage

Our Divided Brain

Brain States and Consciousness

Selective Attention

Sleep and Dreams



Developing Through the Life Span

Developmental Psychology's Major Issues

Nature and Nurture

Continuity and Stages

Stability and Change

Prenatal Development and the Newborn

Conception

Prenatal Development

The Competent Newborn

Twin and Adoption Studies

Infancy and Childhood

Physical Development

Cognitive Development

Social Development

THINKING CRITICALLY ABOUT: Parenting Styles—Too Hard, Too Soft, Too Uncaring, and Just Right?

Adolescence

Physical Development

Cognitive Development

Social Development

Emerging Adulthood

Adulthood

Physical Development

Cognitive Development

Social Development



CHAPTER 4 Sex, Gender, and Sexuality

Gender Development

How Are We Alike? How Do We Differ?

THINKING CRITICALLY ABOUT: Gender Bias in the Workplace

The Nature of Gender: Our Biological Sex

The Nurture of Gender: Our Culture and Experiences

Human Sexuality

The Physiology of Sex

The Psychology of Sex

Sexual Orientation

Why Do We Differ?

How Do We Differ? A Summary

An Evolutionary Explanation of Human Sexuality

Male-Female Differences in Sexuality

Natural Selection and Mating Preferences

Critiquing the Evolutionary Perspective

Social Influences on Human Sexuality

Reflections on the Nature and Nurture of Sex, Gender, and Sexuality



CHAPTER 5 Sensation and Perception

Basic Concepts of Sensation and Perception

From Outer Energy to Inner Brain Activity

Thresholds

THINKING CRITICALLY ABOUT: Subliminal Sensation and Subliminal

Persuasion

Sensory Adaptation

Perceptual Set

Context, Motivation, and Emotion

Vision: Sensory and Perceptual Processing

Light Energy and Eye Structures

Information Processing in the Eye and Brain

Perceptual Organization

Perceptual Interpretation

The Nonvisual Senses

Hearing

Touch

Taste

Smell

Body Position and Movement

Sensory Interaction

ESP—Perception Without Sensation?



CHAPTER 6 Learning

How Do We Learn?

Classical Conditioning

Pavlov's Experiments

Pavlov's Legacy

Operant Conditioning

Skinner's Experiments

Skinner's Legacy

Contrasting Classical and Operant Conditioning

Biology, Cognition, and Learning

Biological Limits on Conditioning

Cognitive Influences on Conditioning

Learning by Observation

Mirrors and Imitation in the Brain

Applications of Observational Learning

THINKING CRITICALLY ABOUT: The Effects of Viewing Media Violence



CHAPTER 7 Memory

Studying Memory

An Information-Processing Model

Building Memories: Encoding

Our Two-Track Memory System

Automatic Processing and Implicit Memories

Effortful Processing and Explicit Memories

Memory Storage

Retaining Information in the Brain Synaptic Changes

Retrieval: Getting Information Out

Measuring Retention

Retrieval Cues

Forgetting

Forgetting and the Two-Track Mind

Encoding Failure

Storage Decay

Retrieval Failure

Memory Construction Errors

Misinformation and Imagination Effects

Source Amnesia

Recognizing False Memories

Children's Eyewitness Recall

THINKING CRITICALLY ABOUT: Can Memories of Childhood Sexual Abuse Be Repressed and Then Recovered?

Improving Memory



CHAPTER 8

Thinking, Language, and Intelligence

Thinking

Concepts

Solving Problems

Making Good (and Bad) Decisions and Judgments

THINKING CRITICALLY ABOUT: The Fear Factor

Thinking Creatively

Do Other Species Share Our Cognitive Skills?

Language

Language Development

The Brain and Language

Thinking Without Language

Do Other Species Have Language?

Intelligence

What Is Intelligence?

Assessing Intelligence

The Nature and Nurture of Intelligence

Intelligence Across the Life Span

Group Differences in Intelligence Test Scores



CHAPTER 9 Motivation and Emotion

Motivational Concepts

Drives and Incentives

Arousal Theory

A Hierarchy of Needs

Hunger

The Physiology of Hunger

The Psychology of Hunger

Obesity and Weight Control

The Need to Belong

The Benefits of Belonging

The Pain of Being Shut Out

Connecting and Social Networking

Emotion: Arousal, Behavior, and Cognition

Historical Emotion Theories

Schachter-Singer Two-Factor Theory: Arousal + Label = Emotion

Zajonc, LeDoux, and Lazarus: Emotion and the Two-Track Brain

Embodied Emotion

The Basic Emotions

Emotions and the Autonomic Nervous System

The Physiology of Emotions

THINKING CRITICALLY ABOUT: Lie Detection

Expressed and Experienced Emotion

Detecting Emotion in Others

Culture and Emotion

The Effects of Facial Expressions



CHAPTER 10 Stress, Health, and Human Flourishing

Stress: Some Basic Concepts

Stressors—Things That Push Our Buttons
Stress Reactions—From Alarm to Exhaustion

Stress Effects and Health

Stress and AIDS

Stress and Cancer

Stress and Heart Disease

THINKING CRITICALLY ABOUT: Stress and Health

Coping With Stress

Personal Control, Health, and Well-Being Is the Glass Half Full or Half Empty? Social Support Finding Meaning

Managing Stress Effects

Aerobic Exercise

Relaxation and Meditation

Faith Communities and Health

Happiness

The Short Life of Emotional Ups and Downs

Wealth and Well-Being

Why Can't Money Buy More Happiness?

Predictors of Happiness



CHAPTER 11 Social Psychology

What is Social Psychology's Focus?

Social Thinking

The Fundamental Attribution Error

Attitudes and Actions

Social Influence

Conformity and Obedience

Group Influence

THINKING CRITICALLY ABOUT: The Internet as Social Amplifier

Social Relations

Prejudice

Aggression

Attraction

Altruism

Conflict and Peacemaking



CHAPTER 12 Personality

What Is Personality?

Psychodynamic Theories

Freud's Psychoanalytic Perspective: Exploring the Unconscious

The Neo-Freudian and Later Psychodynamic Theorists

Assessing Unconscious Processes

Evaluating Freud's Psychoanalytic Perspective and Modern Views of the Unconscious

Humanistic Theories

Abraham Maslow's Self-Actualizing Person

Carl Rogers' Person-Centered Perspective

Assessing the Self

Evaluating Humanistic Theories

Trait Theories

Exploring Traits

THINKING CRITICALLY ABOUT: The Stigma of Introversion

Assessing Traits

The Big Five Factors

Evaluating Trait Theories

Social-Cognitive Theories

Reciprocal Influences
Assessing Behavior in Situations
Evaluating Social-Cognitive Theories

Exploring the Self

The Benefits of Self-Esteem
Self-Serving Bias
Culture and the Self



CHAPTER 13Psychological Disorders

What Is a Psychological Disorder?

Defining Psychological Disorders
Understanding Psychological Disorders

THINKING CRITICALLY ABOUT: ADHD—Normal High Energy or Disordered Behavior?

Classifying Disorders—and Labeling People

Anxiety Disorders, OCD, and PTSD

Anxiety Disorders

Obsessive-Compulsive Disorder (OCD)

Posttraumatic Stress Disorder (PTSD)

Understanding Anxiety Disorders, OCD, and PTSD

Substance Use Disorders and Addictive Behaviors

Tolerance and Addictive Behaviors

Depressants

Stimulants

Hallucinogens

Understanding Substance Use Disorders

Major Depressive Disorder and Bipolar Disorder

Major Depressive Disorder

Bipolar Disorder

Understanding Major Depressive Disorder and Bipolar Disorder

Suicide and Self-Injury

Schizophrenia

Symptoms of Schizophrenia

Onset and Development of Schizophrenia

Understanding Schizophrenia

Other Disorders

Eating Disorders

Dissociative Disorders

Personality Disorders

Does "Disorder" Equal "Danger"?



CHAPTER 14 Therapy

Treating Psychological Disorders

The Psychological Therapies

Psychoanalysis and Psychodynamic Therapy

Humanistic Therapies

Behavior Therapies

Cognitive Therapies

Group and Family Therapies

Evaluating Psychotherapies

Is Psychotherapy Effective?

Which Psychotherapies Work Best?

How Do Psychotherapies Help People?

How Do Culture and Values Influence Psychotherapy?

Finding a Mental Health Professional

The Biomedical Therapies

THINKING CRITICALLY ABOUT: Therapeutic Lifestyle Change

Drug Therapies

Brain Stimulation

Psychosurgery

Preventing Psychological Disorders and Building Resilience

Preventive Mental Health

Building Resilience

APPENDIX A

Statistical Reasoning in Everyday Life

APPENDIX B

Psychology at Work

APPENDIX C

Subfields of Psychology

APPENDIX D

Complete Chapter Reviews

APPENDIX E

Answers to Chapter Test Questions

Glossary

Glosario

References

Name Index

Subject Index

Preface

PSYCHOLOGY IS FASCINATING, and so relevant to our everyday lives. Psychology's insights enable us to be better students, more tuned-in friends and partners, more effective co-workers, and wiser parents. With this new edition, we hope to captivate students with what psychologists are learning about our human nature, to help them think more like psychological scientists, and, as the title implies, to help them relate psychology to their own lives—their thoughts, feelings, and behaviors.

For those of you familiar with other Myers/DeWall introductory psychology texts, you may be surprised at how different this text is. We have created this very brief, uniquely student-friendly book with supportive input from hundreds of instructors and students (by way of surveys, focus groups, content and design reviews, and class testing). Compacting our introduction of psychology's key topics keeps both the length and the price manageable. And we write with the goal of making psychology accessible to all students, regardless of their personal or academic backgrounds. It has been gratifying to hear from instructors who have been delighted to find that this affordable, accessible text offers a complete, college-level survey of the field that they can offer proudly to their students.

What's New in the Fourth Edition?

In addition to thorough updating of every chapter, with new infographic "Thinking Critically About" features, this fourth edition offers exciting new activities in the teaching package.

Hundreds of New Research Citations

Our ongoing scrutiny of dozens of scientific periodicals and science news sources,

enhanced by commissioned reviews and countless e-mails from instructors and students, enables integrating our field's most important, thought-provoking, and student-relevant new discoveries. Part of the pleasure that sustains this work is learning something new every day! See MacmillanLearning.com/PEL4eContent for a chapter-by-chapter list of significant **Content Changes.**

"Thinking Critically About" Infographic features

We worked with an artist to create infographic critical thinking features. (In many cases, these new infographics replace a more static boxed essay in the previous edition.) Several dozen instructors reviewed this feature, often sharing it with their students, and they were unanimously supportive. Students seem to enjoy engaging this visual tool for thinking critically about key psychological concepts (parenting styles, gender bias, group polarization, introversion, lifestyle changes, and more). A picture can indeed be worth a thousand words! (See FIGURE 1 for an example.)

"Assess Your Strengths" Activities for LaunchPad

With the significantly revised **Assess Your Strengths** activities, students apply what they are learning from the text to their own lives and experiences by considering key "strengths." For each of these activities, we [DM and ND] start by offering a personalized video introduction, explaining how that strength ties in to the content of the chapter. Next, we ask students to assess themselves on the strength (critical thinking, quality of sleep, self-control, relationship-building, healthy belonging, hope, and more) using scales developed by researchers across psychological science. After showing students their results, we offer tips for nurturing that strength in students' own lives. Finally, students take a quiz to help solidify their learning.

These activities reside in **LaunchPad**, an online resource designed to help achieve better course results. LaunchPad for *Psychology in Everyday Life*, Fourth Edition, also includes **LearningCurve** formative assessment and the "Immersive Learning: How Would You Know?" activities described next. For details, see p. xxii and LaunchPadWorks.com. For this new edition, you will see that we've offered callouts from the text pages to especially pertinent, helpful resources elsewhere in LaunchPad. (See **FIGURE 2** for a sample.)

"Immersive Learning: How Would You Know?" Research Activities

We [ND and DM] created these online activities to engage students in the scientific process, showing them how psychological research begins with a question, and how key decision points can alter the meaning and value of a psychological study. In a fun, interactive environment, students learn about important aspects of research design and interpretation, and develop scientific literacy and critical thinking skills in the process. I [ND] have enjoyed taking the lead on this project and sharing my research experience and enthusiasm with students. Topics include: "How Would You Know If a Cup of Coffee Can Warm Up Relationships?"; "How Would You Know If People Can Learn to Reduce Anxiety?"; and "How Would You Know If Schizophrenia Is Inherited?"

LOQ 10-5: So, does stress cause illness?

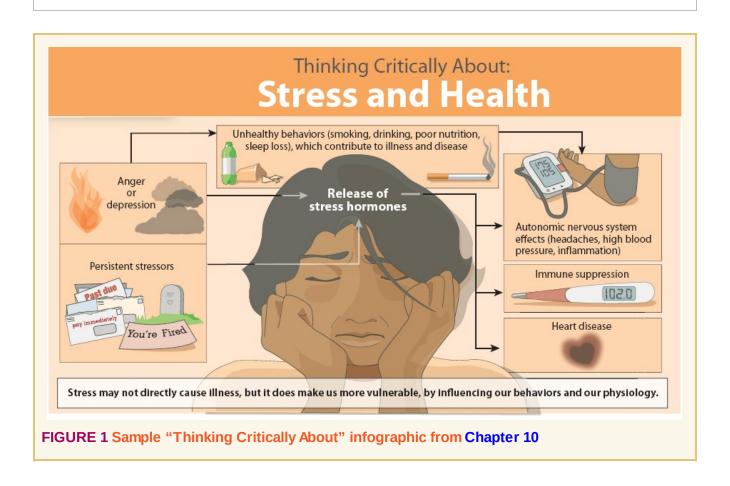


FIGURE 2 Sample LaunchPad callout from Chapter 1

What Continues in the Fourth Edition?

Eight Guiding Principles

Despite all the exciting changes, this new edition retains its predecessors' voice, as well as much of the content and organization. It also retains the goals—the guiding principles—that have animated all of the Myers texts:

Facilitating the Learning Experience

- 1. **To teach critical thinking** By presenting research as intellectual detective work, we illustrate an inquiring, analytical mind-set. Whether students are studying development, cognition, or social behavior, they will become involved in, and see the rewards of, critical reasoning. Moreover, they will discover how an empirical approach can help them evaluate competing ideas and claims for highly publicized phenomena—ranging from ESP and alternative therapies to group differences in intelligence and repressed and recovered memories. Our new "Thinking Critically About" infographic features help engage students in this learning.
- 2. **To integrate principles and applications** Throughout—by means of anecdotes, case histories, and the posing of hypothetical situations—we relate the findings of basic research to their applications and implications. Where psychology can illuminate pressing human issues—be they racism and sexism, health and happiness, or violence and war—we have not hesitated to shine its light. Our newly revised "Assess Your Strengths" activities invite students to apply important concepts to their own lives, and to learn ways to develop key personal strengths.
- 3. **To reinforce learning at every step** Everyday examples and rhetorical questions encourage students to process the material actively. Concepts presented earlier are frequently applied, and reinforced, in later chapters. For instance, in Chapter 1, students learn that much of our information processing occurs outside of our conscious awareness. Ensuing chapters drive home this concept. Numbered

Learning Objective Questions, Retrieve + Remember self-tests throughout each chapter, a marginal glossary, and Chapter Review key terms lists and self-tests help students learn and retain important concepts and terminology.

Demonstrating the Science of Psychology

- 4. **To exemplify the process of inquiry** We strive to show students not just the outcome of research, but how the research process works. Throughout, the book tries to excite the reader's curiosity. It invites readers to imagine themselves as participants in classic experiments. Several chapters introduce research stories as mysteries that progressively unravel as one clue after another falls into place. Our new "Immersive Learning: How Would You Know?" activities in LaunchPad encourage students to think about research questions and how they may be studied effectively.
- 5. **To be as up-to-date as possible** Few things dampen students' interest as quickly as the sense that they are reading stale news. While retaining psychology's classic studies and concepts, we also present the discipline's most important recent developments. In this edition, 619 references are dated 2013–2016. Likewise, new photos and new everyday examples are drawn from today's world.
- 6. **To put facts in the service of concepts** Our intention is not to fill students' intellectual file drawers with facts, but to reveal psychology's major concepts—to teach students how to think, and to offer psychological ideas worth thinking about. In each chapter, we place emphasis on those concepts we hope students will carry with them long after they complete the course. Always, we try to follow Albert Einstein's purported dictum that "everything should be made as simple as possible, but not simpler." Learning Objective Questions and Retrieve + Remember questions throughout each chapter help students focus on the most important concepts.

Promoting Big Ideas and Broadened Horizons

7. **To enhance comprehension by providing continuity** Many chapters have a significant issue or theme that links subtopics, forming a thread that ties the chapter together. The Learning chapter conveys the idea that bold thinkers can serve as intellectual pioneers. The Thinking, Language, and Intelligence chapter raises the issue of human rationality and irrationality. The Psychological Disorders chapter conveys empathy for, and understanding of, troubled lives. Other threads, such as cognitive neuroscience, dual processing, and cultural and gender diversity, weave