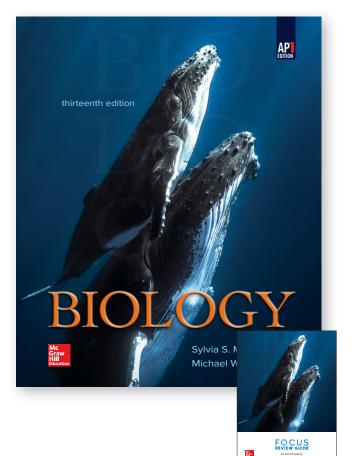


Biology AP[®] Edition (13e) ©2019, Mader

NEW



The Same Trusted, Accessible Content Plus New Coverage and Features for Today's AP Classroom

Students explore AP Biology through an inquiry-based lens as they discover the unity and interconnected nature of the study of life. Author Sylvia Mader blends her iconic field expertise with a clear, easy-to-understand writing style to provide students with concise and engaging instruction, practice, and support for AP success. The stunning illustrative artwork and photo presentations add visual interest and powerful pedagogical tools to support and enhance key concepts. Mader's *Biology* is fully-aligned to the College Board's AP Curriculum Framework with integrated AP coverage and new features including new unit projects focused on the AP science practices, features focused on AP illustrative examples, and full chapter reviews with AP-style questions.

Your Teaching and Learning Resources for AP Success:

- Focus Review Guide workbook to reinforce key AP concepts
- AP Test Banks, featuring AP-style questions to help students prepare for the AP Exam
- AP Teacher Manual with helpful hints to support teachers throughout the course, as well as a pacing guide and classroom activities
- Customizable PowerPoint presentations
- AP Edition eBook and an AP *SmartBook*[®] adaptive reading experience, designed to help students learn faster, study more efficiently, and retain more knowledge
- AP Suggested Activities and more!

APadvantage

The Pathway to Success for Today's AP® Students

AP advantage helps students navigate the rigors of Advanced Placement[®] coursework with accessible, engaging and fully aligned resources designed specifically for today's learners.

1 Oppoard

AP Course Prep

- Self-paced, diagnostic, interactive AP course prep
- Builds prerequisite skills and knowledge before the first day of class
- Great for summer assignments

AP Course Resources

- Robust online teaching and learning platform that extends class instruction
- Interactive, engaging pedagogy tied to the text
- Powerful reporting tools and customizable content

AP Test Prep

- Personalized, adaptive AP content review
- Four complete, auto-graded AP practice exams
- Builds mastery and confidence for AP Exam success

AP®, Advanced Placement®, and Advanced Placement Program® are trademarks registered by the College Board, which was not involved in the production of, and does not endorse, these products.

Table of Contents

Chapter 1 A View of Life

UNIT 1: THE CELL

- Chapter 2 Basic Chemistry
 Chapter 3 The Chemistry of Organic Molecules
 Chapter 4 Cell Structure and Function
 Chapter 5 Membrane Structure and Function
 Chapter 6 Metabolism: Energy and Enzymes
 Chapter 7 Photosynthesis
- Chapter 8 Cellular Respiration

UNIT 2: GENETIC BASIS OF LIFE

- Chapter 9 The Cell Cycle and Cellular Reproduction
 Chapter 10 Meiosis and Sexual Reproduction
 Chapter 11 Mendelian Patterns of Inheritance
 Chapter 12 Molecular Biology of the Gene
 Chapter 13 Regulation of Gene Expression
- Chapter 14 Biotechnology and Genomics

UNIT 3: EVOLUTION

Chapter 15	Darwin and Evolution
Chapter 16	How Populations Evolve
Chapter 17	Speciation and Macroevolution
Chapter 18	Origin and History of Life
Chapter 19	Taxonomy, Systematics, and Phylogeny

UNIT 4: MICROBIOLOGY AND EVOLUTION

Chapter 20	Viruses, Bacteria, and Archaea
Chapter 21	Protist Evolution and Diversity
Chapter 22	Fungi Evolution and Diversity

UNIT 5: PLANT EVOLUTION AND BIOLOGY

Chapter 23 Plant Evolution and Diversity

Chapter 24	Flowering Plants: Structure and Organization
Chapter 25	Flowering Plants: Nutrition and Transport
Chapter 26	Flowering Plants: Control of Growth Responses
Chapter 27	Flowering Plants: Reproduction

UNIT 6: ANIMAL EVOLUTION AND DIVERSITY

- Chapter 28 Invertebrate Evolution
- Chapter 29 Vertebrate Evolution
- Chapter 30 Human Evolution

UNIT 7: COMPARATIVE ANIMAL BIOLOGY

Chapter 31 Animal Organization and Homeostasis
Chapter 32 Circulation and Cardiovascular Systems
Chapter 33 The Lymphatic and Immune Systems
Chapter 34 Digestive Systems and Nutrition
Chapter 35 Respiratory Systems
Chapter 36 Body Fluid Regulation and Excretory Systems
Chapter 37 Neurons and Nervous Systems
Chapter 38 Sense Organs
Chapter 39 Locomotion and Support Systems
Chapter 40 Hormones and Endocrine Systems
Chapter 41 Reproductive Systems
Chapter 42 Animal Development and Aging

UNIT 8: BEHAVIOR AND ECOLOGY

Chapter 43	Behavioral Ecology
Chapter 44	Population Ecology
Chapter 45	Community and Ecosystem Ecology
Chapter 46	Major Ecosystems of the Biosphere
Chapter 47	Conservation of Biodiversity

ISBN List

AP advantage Print and Digital Bundle (Student Edition with ONboard™, Online Student Edition, SCOREboard™)
AP advantage Deluxe Print and Digital Bundle (Student Edition with AP Focus Review Guide, ONboard™, Online Student Edition, SCOREboard™)
6 year: 978-0-07-903174-7 1 year: 978-0-07-903180-8
AP advantage Digital Student Subscription (ONboard™, Online Student Edition, SCOREboard™)
AP advantage Digital Teacher Subscription (ONboard™, Online Teacher Edition, SCOREboard™)
AP advantage access includes an AP SmartBook, interactive eBook, AP Test Banks, and AP Teacher Manual, and more teaching and learning resources.

CALL US TO LEARN MORE! 1-800-334-7344