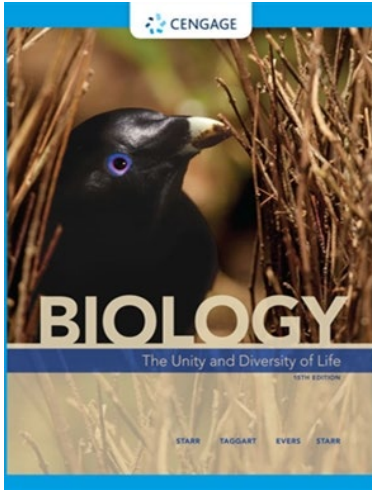


MindTap Quick Start Guide



Biology: The Unity and Diversity of Life 15th Edition
Cecie Starr, Ralph Taggart, Christine Evers, Lisa Starr

BIOLOGY: THE UNITY AND DIVERSITY OF LIFE, 15th Edition, reveals the biological world in wondrous detail. Packed with eye-catching photos and images, this best-selling text engages students with applications and activities that encourage critical thinking. Chapter-opening Core Concepts help students focus on the topics that matter most in every chapter. Each section within a chapter begins with clear Learning Objectives and section-ending Take Home Messages reinforce these key concepts. Links to Earlier Concepts help students make important connections and appreciate how living systems are interconnected and interacting.

3 Key Features

Activity	Where to find it – an example	What is it	Why it matters
Mastery Training	<ol style="list-style-type: none"> Unit II: Genetics (Chapters 8 – 15) 8: DNA Structure and Function Mastery Training: Build Your Foundation for Chapter 8 <p><i>See it in the Cengage Mobile app</i></p>	<p>Mastery Training Learning engine that presents concepts to students, adapting to each student's performance to help them learn efficiently and effectively, and master core concepts.</p>	Students who use this learning engine can improve their course grade by ~13% (Homer & Plass, 2013).
Chapter Opening Videos	<ol style="list-style-type: none"> Unit III: Principles of Evolution (Chapters 16-19) 16: Evidence of Evolution How does mutation, an underlying principle of evolution, work? <p><i>See it in the Cengage Mobile app</i></p>	<p>Chapter Opening Videos General interest videos from the BBC on the topic.</p>	Students get an approachable introduction to the key concepts of the chapter through this video.
Engagement activities	<ol style="list-style-type: none"> Unit IV: Evolution and Biodiversity (Chapters 20 – 26) 20: Viruses, Bacteria, and Archaea Additional Engagement Activities Chapter 20 Study Tools <p><i>See it in the Cengage Mobile app</i></p>	<p>Engagement Activities This end-of-chapter support material brings the application discussion started at the beginning of the chapter back into focus, often expanding on the topic with more information based on what the student learned in the chapter.</p>	Biology issues come up regularly in our life. These activities give students a chance to read and think about real-world scenarios in which knowledge of biology plays an important role.

Starr, Taggart, Evers, Starr,
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MindTap Asset Description

Activity	How many?	What is it?	Seat time?	Why it matters?
How Would You Vote?	48	An activity to gauge what students already think about a topic and have them vote on what their decision would be	<5 minutes	Students do not understand how Biology applies to their life. This activity helps them make a connection and helps uncover students' preconceived ideas on a topic.
Pre-Test	48	A 15-question true/false test checks to see what students already know about the topic.	<5 minutes	Students often come in thinking they know more than they actually do. This quiz acts as a baseline. Students who take a pre-lecture quiz after reading can improve their course grade by ~15% (Daniel & Brouda, 2004).
Chapter Opening Video	48	General interest videos from the BBC on the topic.	<5 minutes	Students get an approachable introduction to the key concepts of the chapter through this video.
Chapter Readings	48 folders	Online textbook, divided into manageable sections based on the 5 key concepts at the start of every chapter, with separate sections for applications. Contains animations and videos, both embedded in the text and separately in the media library.	45-60 minutes	Students have access to the text from any computer.
Study Guide	48 folders	Includes an introduction with study tips, self quiz questions broken out by chapter, and an audio review of the main concept.	15-20 minutes	The former print study guide goes digital! Students have a chance to quiz to see what they have learned.

Activity	How many?	What is it?	Seat time?	Why it matters?
Aplia Conceptual Homework	48	A collection of conceptually based questions, with randomized variation built in, that helps students learn the main topics from the chapter.	20-45 minutes	Students who complete their Aplia homework earn better grades and are better prepared for class. http://blog.cengage.com/aplia-associated-with-higher-course-grades-in-biology/
Post-Test	48	Based on topics covered in the Pre-Test, this 15-question multiple-choice test check to see what they have learned.	<5 minutes	This quiz provides a comparison from the Pre-test. Did you student's scores improve?
Chapter Test	48	30 Multiple Choice questions from the Test Bank.	10 minutes	This pre-built test gives a more in depth look at what students have learned.
How Would You Vote? Revisited	48	A follow up activity to gauge what students already now think about a topic and have them vote on what their decision would be based on what they've learned in the chapter.	<5 minutes	A chance for students to apply what they have learned to the same topic that opened the chapter, and reflect on how their opinion on the issue may have changed.