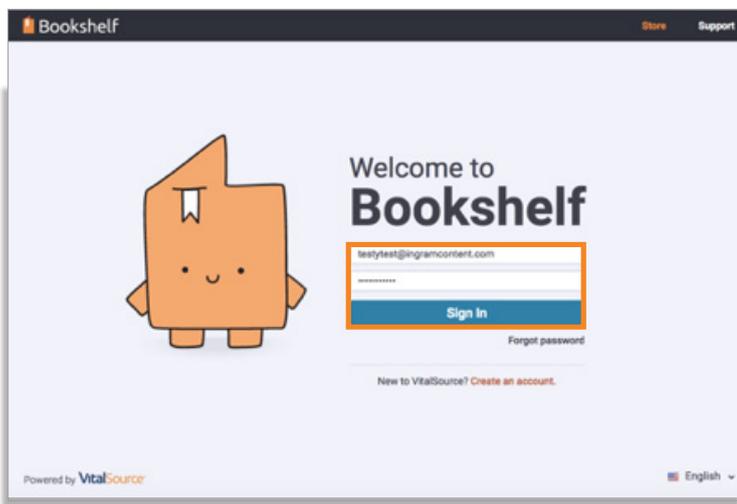


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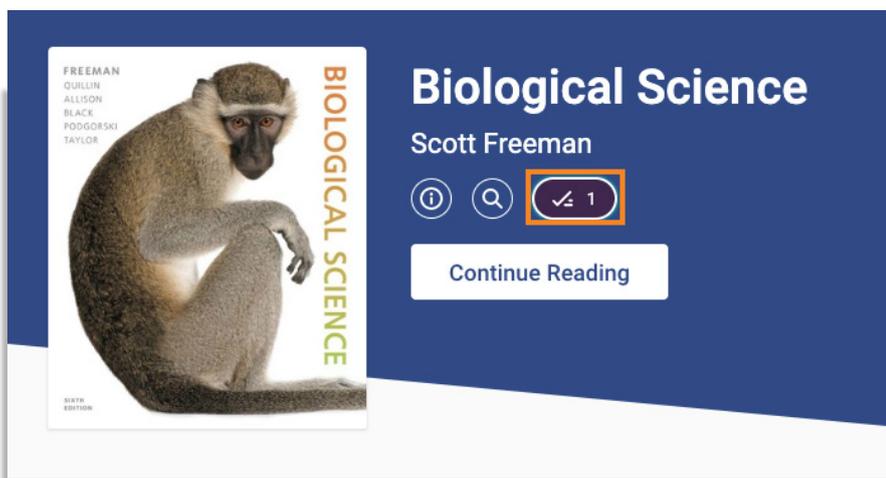
Assigned readings go beyond “Read chapter 1” by providing both a start and an end point, as well as a reading goal, to add focus and a sense of completion to your reading experience. This study tool also allows students to complete assignments in a view designed to reduce distractions and optimise your time spent learning.

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0/2
READINGS
COMPLETE

Biological Science
Scott Freeman

Readings

Unit 4 Evolutionary Patterns and Processes

Unit 5 The Diversification of Life

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Unit 4 Evolutionary Patterns and Processes

UNIT 4
EVOLUTIONARY PATTERNS AND PROCESSES

22 Evolution by Natural Selection

Natural selection explains how populations become well-adapted to their environments over time. The design and coloration of body and organs (in both closely related to animals) are heritable traits that help them to hide from predators.

In this chapter you will learn that

- **Evolution is one of the most important ideas in modern biology**
- **The rise of evolutionary thought** (22.1)
- **The pattern of evolution: species have changed and are related** (22.2)
- **The process of evolution by natural selection** (22.3)
- **Evolution in action: two case studies** (22.4)
- **Common myths about natural selection and adaptation** (22.5)

BIG PICTURE

This chapter is about one of the great ideas in science: the theory of evolution by natural selection, formulated independently by Charles Darwin and Alfred Russel Wallace. The theory explains how **populations**—individuals of the same species that live in the same area at the same time—have come to be adapted to environments ranging from arctic tundra to tropical wet forest. It revealed one of the five key attributes of life. Populations of organisms evolve. In other words, the heritable characteristics of populations change over time (Chapter 1).

Evolution by natural selection is one of the best supported and most important theories in the history of scientific research. But like most scientific breakthroughs, this one did not come easily. When Darwin

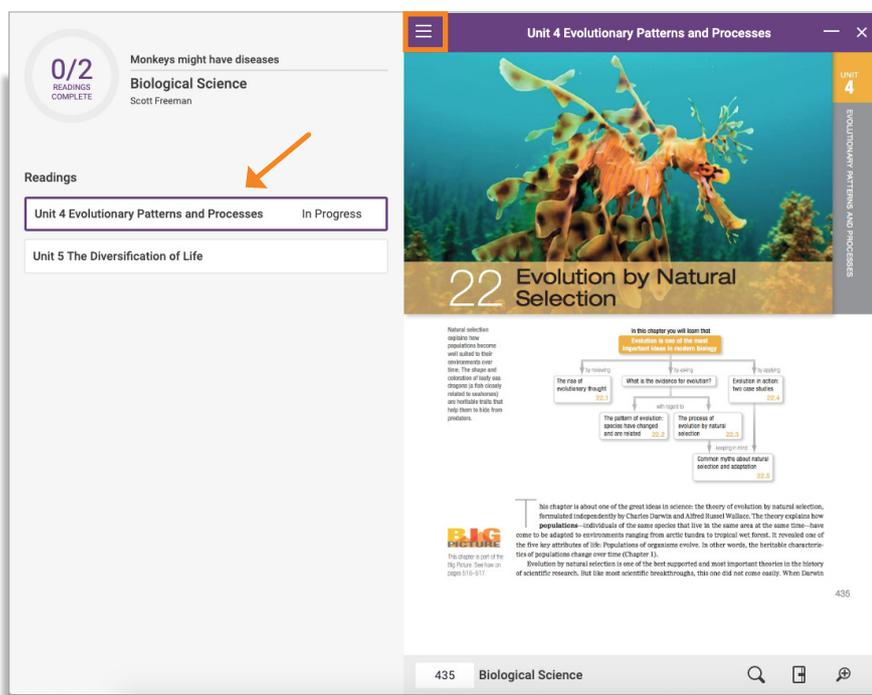
435 Biological Science

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Navigating Your Reading Assignment

Assigned readings allow for a focused study session away from distractions. As a result, we have added features to aid in keeping you on task.

Click on the main menu to slide out the screen showing assignment progress. Jump around to other readings and close by clicking the main menu again.



Click on the page number (when applicable) and see the list of pages in the reading assignment. Note: You cannot navigate to a page that is not within the assignment.



Find Your Assignments

Click Search to perform a targeted find within the assignment. Navigate through the search results by clicking the arrows. Not seeing what you need? Click Search full book. Note: Searching the full book will minimise this reading assignment. You can return at any time.

Click Notebook to see your notes within the assignment. Not seeing what you need? Click Open Notebook in full book. Note: Opening your notebook in full book will minimise this reading assignment. You can return at any time.

Zoom in and out as necessary, and resize the page to the height or width of your screen.

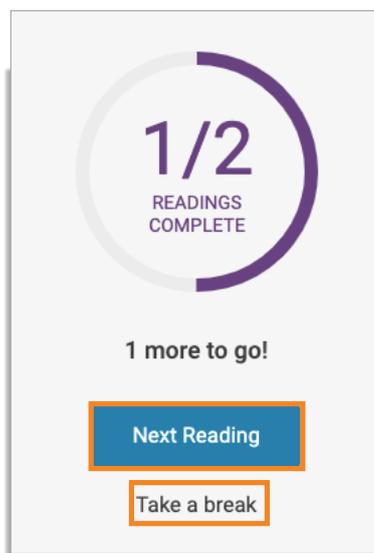
The screenshot shows a digital textbook page for 'Unit 4 Evolutionary Patterns and Processes', specifically chapter 22 'Evolution by Natural Selection'. The page includes a search bar, a search full book button, a notebook icon, and a zoom control panel. Callouts provide instructions on how to use these features:

- Search specific text within the textbook:** Points to the search bar and search full book button.
- Search specific text within the assignment:** Points to the search bar.
- Review notes taken in other parts of the book:** Points to the notebook icon.
- Open Notebook in full book:** Points to the notebook icon.
- Minimise/close assignment:** Points to the window control buttons (minimise and close).
- Zoom and page fit preferences:** Points to the zoom control panel, which includes a zoom slider (set to 100%), 'Fit Height', and 'Fit Width' options.
- Open assignment notebook:** Points to the notebook icon in the bottom right corner.

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Click on the minus sign to minimise your assigned reading and enter the full book. Click X to exit your reading assignment. Your progress will be saved.

As you progress through your assignments, your completion bar will start to fill. You can continue or take a break as you go.



When you complete your assignment, you have the option to go back to Bookshelf by clicking Done or reading your assignment again.

