

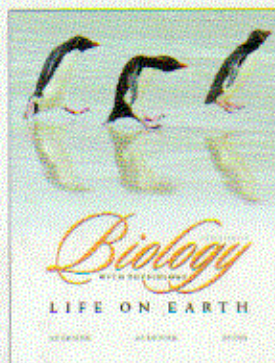


Perhaps lacking the dignity of the emperor penguins featured in the film "March of the Penguins," the rockhopper penguins on our cover aren't engaged in a trek over Antarctic icefields to their breeding sites. Rockhoppers, in fact, seldom set flipper on the Antarctic continent itself. These are crossing a relatively small stretch of sea ice on their way back to the ocean to feed. Rockhoppers mate and nest on islands near Antarctica, New Zealand, Chile, and Argentina—and unlike emperor penguins, rockhoppers mate in the summer, hopping over rocky shores on their way to huge nesting colonies where as many as 100,000 birds gather. The lead penguin in our trio displays its hopping ability, even on slippery ice.

As you read this text, think about how what you learn applies to rockhopper penguins. How can a rockhopper's feet continue to function as it walks along on the ice (see Chapter 5)? How does the layer of fat beneath its skin not only help to insulate it against the cold, but also provide a source of energy while it incubates its eggs, without eating, for weeks at a time (Chapters 3 and 34)? Why do almost all animals that spend most of their time swimming in the ocean have a smooth, streamlined shape (Chapter 14)? What is a food web, and why does every 6-pound, carnivorous rockhopper rely on the photosynthesis of hundreds, perhaps even thousands, of pounds of algae (Chapter 28)? How are human activities affecting ecosystems, and how does this contribute to the decline of rockhoppers over the past half-century (Chapters 28, 29, and 30)?

All life is interrelated. What you learn in your biology class will help you to appreciate the marvels of people, rockhopper penguins, plants, and all other forms of life on Earth. Enjoy!

This textbook is available in two versions



Biology: Life on Earth with Physiology
(ISBN 978-0-13-195766-4)

Contains chapters 1-44
Includes units covering plant and animal anatomy and physiology



Biology: Life on Earth
(ISBN 978-0-13-238061-4)

Contains chapters 1-30

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