

Chapter 1: Evolution, the Themes of Biology, and Scientific Inquiry

- 1.1 *Use examples to illustrate each theme of this book.*
- 1.2 *Summarize how evolution accounts for the unity and diversity of life.*
- 1.3 *Discuss the scientific process.*
- 1.4 *Evaluate the contribution of diversity among scientists to scientific progress.*

This chapter will serve as a review of biological concepts that you may have learned in an earlier course and give you an overview of what you will study this year. It introduces the major themes of biology and provides a foundation for understanding scientific inquiry.

Study Tip: In Figure 1.1, notice the light coat color of the beach mouse against the white sand. This mouse, like all organisms on Earth, demonstrates the unifying themes of biology. Read through the examples in this figure, as they will be visited repeatedly in your study of biology.

Concept 1.1 The study of life reveals unifying themes

LO 1.1: Use examples to illustrate each theme of this book

1. In the overview in your text, Figure 1.2 notes many of the properties of life. Label the seven properties illustrated in the following figure and give a *different* example of each.



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**Jane B. Reece, Lisa A. Urry, Michael L.
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