

Diagnostic Test

CHAPTER 1 The Study of Life

Before reading Chapter 1, predict answers to questions about the chapter content based on what you already know. Circle the letter of the correct answer, and then explain your reasoning.

1. Emilio's uncle is a biologist who works in the Algonquin Provincial Park in Canada. Emilio plans to visit his uncle to help him with his job. Which activity should Emilio expect to do while visiting his uncle?
- A. conduct chemical tests for air pollution
 - B. design a new campsite for backpackers
 - C. observe the behavior of moose herds
 - D. participate in a soil survey of the forest

Explain.

2. Brett enjoys science and is considering science as a career choice. Brett's science teacher explains some of the methods scientists use to conduct their work. Which does Brett's teacher discuss?
- A. Scientists are careful not to contradict each other's results.
 - B. Scientists create new theories when they collect new data.
 - C. Scientists form a testable explanation to solve a problem.
 - D. Scientists only make measurements during experiments.

Explain.

3. Imena is teaching her younger brother how to build a fire. As the fire sparks and starts to burn the kindling and wood in the fireplace, her brother asks if the fire is alive because it is moving and growing. Imena tells her brother that the fire is not a living thing, and her brother asks what makes something alive. What response does Imena give her brother?
