

Living in the Environment 18th edition by G. Tyler Miller, Scott E. Spoolman Solution Manual

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Chapter 2. Science, Matter, Energy, and Systems

Chapter Outline

CORE CASE STUDY How Do Scientists Learn about Nature? Experimenting with a Forest

2-1 What Do Scientists Do?

Individuals matter Jane Goodall: Chimpanzee Researcher and Protector

SCIENCE FOCUS Some Revisions in a Popular Scientific Hypothesis

2-2 What Is Matter and What Happens When It Undergoes Change?

2-3 What Is Energy and What Happens When It Undergoes Change?

2-4 What Are Systems and How Do They Respond to Change?

SCIENCE FOCUS The Usefulness of Models

TYING IT ALL TOGETHER The Hubbard Brook Forest Experiment and Sustainability

Key Concepts

2-1 Scientists collect data and develop hypotheses, theories, models, and laws about how nature works.

2-2A Matter consists of elements and compounds, which in turn are made up of atoms, ions, or molecules.

2-2B Whenever matter undergoes a physical or chemical change, no atoms are created or destroyed (the law of conservation of matter).

2-3A Whenever energy is converted from one form to another in a physical or chemical change, no energy is created or destroyed (first law of thermodynamics).

2-3B Whenever energy is converted from one form to another in a physical or chemical change, we end up with lower-quality or less-usable energy than we started with (second law of thermodynamics).

2-4 Systems have inputs, flows, and outputs of matter and energy, and feedback can affect their behavior.

Key Questions and Case Studies

CORE CASE STUDY: How Do Scientists Learn about Nature? Experimenting with a Forest

Controlled experiments involve an experimental group, in which a known variable is changed, and a control group, in which the variable is not changed. The example involves two drainages that were dammed. One was deforested and one left forested. The deforested landscape showed an increase in erosion and an increase in water flow carrying dissolved nutrients.

2-1 What do scientists do?

A. Scientists use the scientific method to study and understand the patterns in the natural world.

1. Identify the problem.
2. Find out what is known about the problem.
3. Propose a question.
4. Collect data
5. Suggest a hypothesis (possible explanation).
6. Make testable projections
7. Test with further experiments, models or observations.
 - a. Models are approximate representations of a system.
8. Support or reject the hypothesis.

B. Scientists develop a scientific theory on a well-tested and widely accepted scientific hypothesis.

Science, Systems, Matter, and Energy

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Emilie Sanchez



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