CHAPTER 7

Experiments: What Causes What?

Learning Objectives

- 1. Explain the logic of experimentation with respect to how experiments effectively meet the criteria for establishing causality.
- 2. Describe variations in experimental design related to the timing and measurement of the dependent variable as well as the number of independent variables manipulated.
- 3. Describe variations in experimental context by distinguishing among laboratory, field, and survey-based experiments.
- 4. Describe the steps in the process of planning and conducting an experiment and apply them to a research topic.
- 5. Evaluate experiments as a method of data collection, identifying their strengths and weaknesses.