

# ACTIVE CHEMISTRY

## CHAPTER 8

### COOL CHEMISTRY SHOW

#### Chapter Overview

How often have you heard the statement that you learn more in the first year of teaching chemistry than you did in all of the years that you studied chemistry? This chapter uses this thought in that the students learn chemistry concepts and background and then are expected to be able to do a demonstration at the local elementary school for the fourth-and-fifth-grade students. They will have fun working with the students and will find that they will gain poise and hopefully an appreciation for all the work that their teachers must do in order to be successful teachers.

The chapter starts with a review of physical and chemical properties. As they continue working through the activities the students learn more about chemical changes and factors that influence the chemical reaction. At the same time they start naming compounds and balancing chemical equations. A strong understanding of how ionic and covalent compounds differ is also stressed. In the final activities they study the energy of the reaction, factors that affect the rate of reactions, and how acids and bases react with each other. The final activity leads them through an understanding of how redox reactions take place. They also review metal activities.