

## Glencoe Curriculum Portfolio Activities—Unit 7



### Science 1

#### Make a spreadsheet to analyze friction data.

In-line skating, skateboarding, and bicycling are no fun when there's too much friction.

Work with a partner to create an experiment to show the effect of friction. You will find one such experiment in *Glencoe Science: An Introduction to the Life, Earth, and Physical Sciences*, Chapter 10 Forces and Motion, Mini Lab activity, page 273.

Place a washer at the top of a slope. Make the slope just steep enough to make the washer slide to the bottom. Ask your partner to measure the angle of the slope with a protractor. Put different materials on the slope, such as sandpaper, wax paper, and aluminum foil.

Measure the angle of the slope for each material. Record your data in a spreadsheet. Find the minimum angle to show which material had the least friction. Find the maximum angle to show which material had the most friction.

#### Resources:

The Internet

*Glencoe Science: An Introduction to the Life, Earth, and Physical Sciences*

Topic: Physical Science

Chapter 10 Forces and Motion, Mini Lab activity, page 273. Also see pages 262-287.