



# 11.2

# Lesson Plans



**KEY**

SE = Student Edition, TWE = Teacher Wraparound Edition, TCR = Teacher Classroom Resources, STVS = Science and Technology Videodisc Series, PCA = Physics for the Computer Age

## Conservation of Energy

### Section Objectives

- \_\_\_\_\_ Solve problems using the law of conservation of energy.
- \_\_\_\_\_ Analyze collisions to find the change in kinetic energy.

**National Science Content Standards** UCP.1, UCP.2, UCP.3, A.1, A.2, B.4, B.5, E.1, F.3, F.4, F.5, F.6

**Georgia QCC** 1, 6, 6.1, 6.3, 6.4, 7, 7.2, 24, 24.1, 24.2, 24.3, 24.4, 24.5, 24.6, 24.7, 24.8, 24.9, 24.10

### Schedule

Block schedule: 2 1/2 sessions

Single-period schedule: 4 sessions

### Focus

- \_\_\_\_\_ Discrepant Event, TWE p. 258

### Teach

- \_\_\_\_\_ Pocket Lab, SE p. 262
- \_\_\_\_\_ Earth Science Connection, SE p. 263
- \_\_\_\_\_ Physics & Society, SE p. 266
- \_\_\_\_\_ Quick Demos, TWE pp. 259, 260
- \_\_\_\_\_ Physics Journal, TWE p. 260
- \_\_\_\_\_ Demonstration 11-2, TWE pp. 260–261
- \_\_\_\_\_ Applying Physics, TWE p. 262
- \_\_\_\_\_ Connections to Chemistry, TWE p. 262

- \_\_\_\_\_ Tech Prep, TWE p. 263
- \_\_\_\_\_ Transparency 15 Master and Worksheet, pp. 31–32, TCR
- \_\_\_\_\_ Physics Lab and Pocket Lab Worksheets, p. 56, TCR
- \_\_\_\_\_ Laboratory Manual, Lab 11.1, TCR
- \_\_\_\_\_ Spanish Resources, TCR

### Assess/Reteach

- \_\_\_\_\_ Section Review, SE p. 265
- \_\_\_\_\_ Checking for Understanding, TWE p. 264
- \_\_\_\_\_ Reteaching, TWE p. 265
- \_\_\_\_\_ Study Guide, pp. 65–66, TCR
- \_\_\_\_\_ Supplemental Problems, TCR
- \_\_\_\_\_ Reviewing Physics: Mastering the Georgia QCC, TCR

### Enrichment/Application

- \_\_\_\_\_ Extension, TWE p. 265
- \_\_\_\_\_ Tech Prep Applications, pp. 19–20, TCR
- \_\_\_\_\_ Enrichment, pp. 21–22, TCR

### Close

- \_\_\_\_\_ Closing Strategy, TWE p. 265

### Chapter Assessment

- \_\_\_\_\_ Chapter Review, SE pp. 267–271
- \_\_\_\_\_ Assessment, TWE p. 263
- \_\_\_\_\_ Chapter Assessment, pp. 49–54, TCR
- \_\_\_\_\_ Alternate Assessment in the Science Classroom
- \_\_\_\_\_ Performance Assessment in the Science Classroom

### Multimedia Options

- \_\_\_\_\_ CD-ROM: Energy, PCA
- \_\_\_\_\_ Videotape: The Mechanical Universe, Quad 2
- \_\_\_\_\_ Videotape: MindJogger Videoquizzes
- \_\_\_\_\_ Videodisc: STVS Physics, Disc 1, Side 1, Ch. 11
- \_\_\_\_\_ TestCheck Software