



# 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

## The Many Forms of Energy

### Section Objectives

- \_\_\_\_\_ Use a **model** to relate work and energy.
- \_\_\_\_\_ **Calculate** the kinetic energy of a moving object.
- \_\_\_\_\_ **Determine** how to find the gravitational potential energy of a system.
- \_\_\_\_\_ **Identify** ways in which elastic potential energy is stored in a system.

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

**Georgia QCC** 1, 1.1, 1.2, 1.3, 1.4, 6, 6.3, 6.4, 24, 24.1, 24.2, 24.3, 24.4

**Schedule**

Block schedule: 1 session  
Single-period schedule: 2 sessions

### Focus

- Focus Activity, TWE p. 248

### Teach

- Pocket Lab, SE p. 249
- Help Wanted, SE p. 255
- Design Your Own Physics Lab, SE p. 257
- Quick Demos, TWE pp. 247, 250, 251, 255
- Demonstration 11-1, TWE pp. 252–253
- Physics Journal, TWE p. 253
- Transparency 15 Master and Worksheet, pp. 31–32, TCR
- Physics Lab and Pocket Lab Worksheets, pp. 53–55, TCR
- Physics Skills, Skill 17, TCR
- Spanish Resources, TCR

### Assess/Reteach

- Section Review, SE p. 256
- Checking for Understanding, TWE p. 255
- Reteaching, TWE p. 256
- Study Guide, pp. 61–64, TCR
- Reteaching, p. 15, TCR
- Supplemental Problems, TCR

### Enrichment/Application

- Cultural Diversity, TWE p. 249
- Extension, TWE p. 256
- Critical Thinking, p. 16, TCR

### Close

- Closing Strategy, TWE p. 256

### Chapter Assessment

- \_\_\_\_\_ Assessment, TWE p. 252
- \_\_\_\_\_ Alternate Assessment in the Science Classroom
- \_\_\_\_\_ Performance Assessment in the Science Classroom

### Multimedia Options

- CD-ROM: What Is Physics?, PCA
- Videotape: MindJogger Videoquizzes
- Videodisc: STVS Chemistry, Disc 2, Side 1, Ch. 5
- TestCheck Software