



# 12.1 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

## Temperature and Thermal Energy

### Section Objectives

- \_\_\_\_\_ Describe the nature of thermal energy.
- \_\_\_\_\_ Define temperature and **distinguish** it from thermal energy.
- \_\_\_\_\_ Use the Celsius and Kelvin temperature scales and **convert** one to another.
- \_\_\_\_\_ Define specific heat and **calculate** heat transfer.

**National Science Content Standards** UCP.1, UCP.2, UCP.3, UCP.4, A.1, A.2, B.5, B.6, G.1, G.3  
**Georgia QCC** 1, 1.1, 1.2, 1.3, 1.4, 10, 10.1, 10.2, 11, 11.1, 11.4, 24.1, 24.3, 24.4

**Schedule**

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

### Focus

- Focus Strategy, TWE p. 274

### Teach

- Physics Lab, SE p. 281
- Pocket Lab, SE p. 284
- Quick Demos, TWE pp. 273, 276, 279
- Demonstration 12-1, TWE p. 275
- Demonstration 12-2, TWE p. 282
- \_\_\_\_\_ Physics Journal, TWE p. 278
- \_\_\_\_\_ Applying Physics, TWE p. 282
- \_\_\_\_\_ Connections to Chemistry, TWE p. 283
- Transparencies 16, 17 Masters and Worksheets, pp. 33–36, TCR
- Laboratory Manual, Lab 12.1, TCR
- Physics Lab and Pocket Lab Worksheets, pp. 57–59, TCR
- \_\_\_\_\_ Spanish Resources, TCR

### Assess/Reteach

- Section Review, SE p. 284
- \_\_\_\_\_ Checking for Understanding, TWE p. 283
- Reteaching, TWE p. 283
- Study Guide, pp. 67–69, TCR
- Reteaching, p.16, TCR
- \_\_\_\_\_ Supplemental Problems, TCR

### Enrichment/Application

- Extension, TWE p. 283
- \_\_\_\_\_ Enrichment, pp. 23–24, TCR

### Close

- Activity, TWE p. 283

### Chapter Assessment

- \_\_\_\_\_ Assessment, TWE pp. 277, 282
- \_\_\_\_\_ Alternate Assessment in the Science Classroom
- \_\_\_\_\_ Performance Assessment in the Science Classroom

### Multimedia Options

- Videotape:** MindJogger Videoquizzes
- Videodisc:** STVS Physics Disc 1, Side 1, Ch. 12; Chemistry Disc 2, Side 2, Chs. 8, 10, 17
- \_\_\_\_\_ **TestCheck Software**

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