



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 Solid State

Section Objectives

- _____ Compare solids, liquids, gases, and plasmas at a microscopic level, and **relate** their properties to their structures.
- _____ **Explain** why solids expand and contract when the temperature changes.
- _____ **Calculate** the expansion of solids and **discuss** the problems caused by expansion.

National Science Content Standards UCP.1, UCP.2, UCP.3, A.1, A.2, B.2, B.5, E.1, E.2, G.2

Georgia QCC 1, 1.2, 7.2, 8.1, 10, 24, 24.1, 24.2, 24.3, 24.6

Schedule

Block schedule: 1 1/2 sessions

Single-period schedule: 3 sessions

Focus

- Quick Demo, TWE p. 314

Teach

- _____ Physics & Technology, SE p. 316
- Pocket Lab, SE p. 317
- _____ Help Wanted, SE p. 319
- Quick Demos, TWE pp. 315, 319
- _____ Connections to Biology, TWE p. 316

- Demonstration 13-2, TWE p. 317
- _____ Applying Physics, TWE pp. 319, 320
- _____ Physics Journal, TWE p. 320
- Physics Lab and Pocket Lab Worksheets, p. 67, TCR
- _____ Spanish Resources, TCR

Assess/Reteach

- Section Review, SE p. 321
- _____ Checking for Understanding, TWE p. 321
- Reteaching, TWE p. 321
- Study Guide, pp. 77–78, TCR

- _____ Supplemental Problems, TCR
- Reviewing Physics: Mastering the Georgia QCC, TCR

Enrichment/Application

- Extension, TWE p. 321
- _____ Critical Thinking, p. 19, TCR

Close

- Closing Strategy, TWE p. 321

Chapter Assessment

- Chapter Review, SE pp. 322–325
- _____ Alternate Assessment in the Science Classroom
- _____ Assessment, TWE pp. 317, 318
- _____ Performance Assessment in the Science Classroom
- Chapter Assessment, pp. 59–64, TCR

Multimedia Options

- Videotape:** MindJogger Videoquizzes
- _____ **TestCheck Software**
- Videodisc:** STVS Earth and Space Disc 3, Side 2, Ch. 16