



# 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

## Wave Properties

### Section Objectives

- \_\_\_\_\_ Identify how waves transfer energy without transferring matter.
- \_\_\_\_\_ Contrast transverse and longitudinal waves.
- \_\_\_\_\_ Relate wave speed, wavelength, and frequency.

**National Science Content Standards** UCP.1, UCP.2, UCP.3, A.1, A.2, B.6, E.1, F.5, F.6  
**Georgia QCC** 1, 1.1, 1.2, 1.3, 1.4, 7, 7.1, 7.2, 12, 12.1, 12.4, 15.1, 24, 24.1, 24.2, 24.3, 24.4, 24.5, 24.6, 24.7, 24.8, 24.9, 24.10

### Schedule

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

### Focus

- Quick Demo, TWE p. 328

### Teach

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| <ul style="list-style-type: none"> <li> Design Your Own Physics Lab, SE p. 330</li> <li>_____ Help Wanted, SE p. 332</li> <li>_____ Physics &amp; Society, SE p. 334</li> <li>_____ Earth Science Connection, SE p. 335</li> <li> Quick Demos, TWE pp. 327, 331</li> <li>_____ Physics Journal, TWE p. 329</li> <li>_____ Connections to Architecture, TWE p. 331</li> <li> Demonstration 14-1, TWE pp. 332–333</li> </ul> | <ul style="list-style-type: none"> <li>_____ Applying Physics, TWE p. 332</li> <li> Transparency 21 Master and Worksheet, pp. 43–44, TCR</li> <li> Physics Lab and Pocket Lab Worksheets, pp. 69–70, TCR</li> <li> Laboratory Manual, Lab 14.2, TCR</li> <li>_____ Spanish Resources, TCR</li> </ul> |
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### Assess/Reteach

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| <ul style="list-style-type: none"> <li> Section Review, SE p. 335</li> <li>_____ Checking for Understanding, TWE p. 335</li> <li> Reteaching, TWE p. 335</li> </ul> | <ul style="list-style-type: none"> <li> Study Guide, pp. 79–82, TCR</li> <li> Reteaching, p. 19, TCR</li> <li>_____ Supplemental Problems, TCR</li> </ul> |
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### Enrichment/Application

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| <ul style="list-style-type: none"> <li>_____ Cultural Diversity, TWE p. 331</li> <li>_____ Enrichment, TWE pp. 332, 333</li> </ul> | <ul style="list-style-type: none"> <li> Extension, TWE p. 335</li> <li>_____ Enrichment, pp. 27–28, TCR</li> </ul> |
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### Close

- Convergent Question, TWE p. 335

### Chapter Assessment

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| <ul style="list-style-type: none"> <li>_____ Assessment, TWE p. 332</li> <li>_____ Alternate Assessment in the Science Classroom</li> </ul> | <ul style="list-style-type: none"> <li>_____ Performance Assessment in the Science Classroom</li> </ul> |
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### Multimedia Options

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| <ul style="list-style-type: none"> <li> CD-ROM: Waves, PCA</li> <li> Videotape: MindJogger Videoquizzes</li> <li> Videotape: The Mechanical Universe, Quad 4</li> </ul> | <ul style="list-style-type: none"> <li> Videodisc: STVS Earth and Space Disc 3, Side 2, Chs. 12, 13; Physics Disc 1, Side 1, Ch. 6</li> <li>_____ TestCheck Software</li> </ul> |
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