



# 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 Behavior

### Section Objectives

- \_\_\_\_\_ Relate a wave's speed to the medium in which the wave travels.
- \_\_\_\_\_ Describe how waves are reflected and refracted at boundaries between media and explain how waves diffract.
- \_\_\_\_\_ Apply the principle of superposition to the phenomenon of interference.

**National Science Content Standards** UCP.2, A.1, A.2, B.6  
**Georgia QCC** 1, 1.2, 12, 12.1, 12.2, 12.3, 12.4, 24.3  
**Schedule**  
 Block schedule: 2 1/2 sessions  
 Single-period schedule: 4 sessions

### Focus

- Quick Demo, *TWE* p. 336

### Teach

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| <ul style="list-style-type: none"> <li> Pocket Labs, <i>SE</i> pp. 337, 339, 340</li> <li>_____ Physics Journal, <i>TWE</i> p. 337</li> <li> Quick Demos, <i>TWE</i> pp. 338, 342</li> <li> Demonstration 14-2, <i>TWE</i> pp. 338–339</li> <li> Demonstration 14-3, <i>TWE</i> pp. 340–341</li> <li>_____ Applying Physics, <i>TWE</i> p. 342</li> </ul> | <ul style="list-style-type: none"> <li>_____ Tech Prep, <i>TWE</i> p. 342</li> <li> <i>Physics Lab and Pocket Lab Worksheets</i>, pp. 71–73, <i>TCR</i></li> <li> <i>Laboratory Manual</i>, Lab 14.1, <i>TCR</i></li> <li>_____ <i>Graphing Calculators in the Science Classroom</i></li> <li>_____ <i>Spanish Resources</i>, <i>TCR</i></li> </ul> |
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### Assess/Reteach

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| <ul style="list-style-type: none"> <li> Section Review, <i>SE</i> p. 343</li> <li>_____ Checking for Understanding, <i>TWE</i> p. 343</li> <li> Reteaching, <i>TWE</i> p. 343</li> <li> <i>Study Guide</i>, pp. 83–84, <i>TCR</i></li> </ul> | <ul style="list-style-type: none"> <li>_____ <i>Supplemental Problems</i>, <i>TCR</i></li> <li> <i>Reviewing Physics: Mastering the Georgia QCC</i>, <i>TCR</i></li> </ul> |
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### Enrichment/Application

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| <ul style="list-style-type: none"> <li> Extension, <i>TWE</i> p. 343</li> </ul> | <ul style="list-style-type: none"> <li>_____ <i>Critical Thinking</i>, p. 20, <i>TCR</i></li> </ul> |
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### Close

- Closing Strategy, *TWE* p. 343

### Chapter Assessment

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| <ul style="list-style-type: none"> <li> Chapter Review, <i>SE</i> pp. 344–347</li> <li>_____ Assessment, <i>TWE</i> p. 341</li> <li> <i>Chapter Assessment</i>, pp. 65–68, <i>TCR</i></li> </ul> | <ul style="list-style-type: none"> <li>_____ <i>Alternate Assessment in the Science Classroom</i></li> <li>_____ <i>Performance Assessment in the Science Classroom</i></li> </ul> |
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### Multimedia Options

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| <ul style="list-style-type: none"> <li> <b>CD-ROM:</b> Introduction, <i>PCA</i></li> <li> <b>Videotape:</b> <i>MindJogger Videoquizzes</i></li> </ul> | <ul style="list-style-type: none"> <li> <b>Videodisc:</b> <i>STVS Earth and Space Disc 3</i>, Side 2, Ch. 20; <i>Physics Disc 1</i>, Side 1, Ch. 5</li> <li>_____ <b>TestCheck Software</b></li> </ul> |
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