



15.1

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

Properties of Sound

Section Objectives

- _____ **Demonstrate** knowledge of the nature of sound waves and the properties sound shares with other waves.
- _____ **Solve** problems relating the frequency, wavelength, and velocity of sound.
- _____ **Relate** the physical properties of sound waves to the way we perceive sound.
- _____ **Define** the Doppler shift and **identify** some of its applications.

National Science Content Standards UCP.2, UCP.3, B.6, C.3, C.6, D.3, D.4, E.1, E.2, F.1, F.6, G.1, G.3

Georgia QCC 7.2, 12, 13, 13.1, 13.2, 13.4, 13.5, 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 1/2 sessions
Single-period schedule: 2 sessions

Focus

- _____ Discrepant Event, TWE p. 350

Teach

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| _____ Help Wanted, SE p. 352 | _____ Physics Journal, TWE p. 353 |
| _____ Physics & Society, SE p. 356 | _____ Connections to History, TWE p. 354 |
| _____ Quick Demos, TWE pp. 349, 353 | _____ Transparencies 22, 23 Masters and Worksheets, pp. 45–48, TCR |
| _____ Applying Physics, TWE p. 351 | _____ Laboratory Manual, Lab 15.1, TCR |
| _____ Tech Prep, TWE p. 352 | _____ Spanish Resources, TCR |
| _____ Demonstration 15-1, TWE p. 352 | |

Assess/Reteach

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| _____ Section Review, SE p. 355 | _____ Study Guide, pp. 85–88, TCR |
| _____ Checking for Understanding, TWE p. 355 | _____ Supplemental Problems, TCR |
| _____ Reteaching, TWE p. 355 | |

Enrichment/Application

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| _____ Cultural Diversity, TWE p. 353 | _____ Extension, TWE p. 355 |
| _____ Enrichment, TWE p. 354 | |

Close

- _____ Convergent Question, TWE p. 355

Chapter Assessment

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| _____ Assessment, TWE p. 354 | _____ Performance Assessment in the Science Classroom |
| _____ Alternate Assessment in the Science Classroom | |

Multimedia Options

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| _____ Videotape: MindJogger Videoquizzes | _____ TestCheck Software |
| _____ Videodisc: STVS Physics Disc 1, Side 1, Chs. 7, 11, 17 | |