



17.2

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

Applications of Reflected and Refracted Light

Section Objectives

- _____ Explain total internal reflection.
- _____ Define the critical angle.
- _____ Explain effects caused by the refraction of light in a medium with varying refractive indices.
- _____ Explain dispersion of light in terms of the index of refraction.

National Science Content Standards UCP.2, UCP.3, A.1, A.2, E.1, E.2, F.6, G3

Georgia QCC 1, 1.2, 7.2, 12.2, 14.7, 14.11, 15, 15.1, 24, 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: 3 sessions

Focus

- Activity, TWE p. 403

Teach

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| <ul style="list-style-type: none"> Pocket Labs, SE pp. 404, 408 _____ How It Works, SE p. 405 _____ Literature Connection, SE p. 407 Demonstration 17-3, TWE pp. 404–405 Quick Demos, TWE pp. 406, 408 _____ Physics Journal, TWE p. 406 | <ul style="list-style-type: none"> _____ Tech Prep, TWE p. 407 _____ Connections to Computer Science, TWE p. 408 Physics Lab and Pocket Lab Worksheets, pp. 89–90, TCR _____ Spanish Resources, TCR |
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Assess/Reteach

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| <ul style="list-style-type: none"> Section Review, SE p. 409 _____ Checking for Understanding, TWE p. 409 Reteaching, TWE p. 409 Study Guide, pp. 101–102, TCR | <ul style="list-style-type: none"> _____ Supplemental Problems, TCR Reviewing Physics: Mastering the Georgia QCC, TCR |
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Enrichment/Application

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| <ul style="list-style-type: none"> _____ Cultural Diversity, TWE p. 406 Extension, TWE p. 409 | <ul style="list-style-type: none"> _____ Critical Thinking, p. 23, TCR |
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Close

- Convergent Question, TWE p. 409

Chapter Assessment

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| <ul style="list-style-type: none"> Chapter Review, SE pp. 410–413 _____ Assessment, TWE p. 407 Chapter Assessment, pp. 77–80, TCR | <ul style="list-style-type: none"> _____ Alternate Assessment in the Science Classroom _____ Performance Assessment in the Science Classroom |
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Multimedia Options

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| <ul style="list-style-type: none"> Videotape: MindJogger Videoquizzes Videodisc: STVS Physics, Disc 1, Side 1, Chs. 10, 16 | <ul style="list-style-type: none"> _____ TestCheck Software |
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