



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

Lenses

Section Objectives

- _____ Describe how real and virtual images are formed by convex and concave lenses.
- _____ Locate the image with a ray diagram and find the image location and size using a mathematical model.
- _____ Define chromatic aberration and explain how it can be reduced.
- _____ Explain how optical instruments such as microscopes and telescopes work.

National Science Content Standards UCP.2, UCP.3, A.1, A.2, C.6, E.1, E.2, G.3
Georgia QCC 1, 1.1, 1.2, 1.3, 1.4, 12.2, 12.4, 14.8, 24, 24.1, 24.3, 24.5, 24.6, 24.7, 24.9, 24.10

Schedule

Block schedule: 2 1/2 sessions
 Single-period schedule: 4 sessions

Focus

- Activity, *TWE* p. 429

Teach

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| <ul style="list-style-type: none"> Pocket Labs, <i>SE</i> pp. 432, 435 Physics Lab, <i>SE</i> p. 433 _____ Physics Journal, <i>TWE</i> p. 430 _____ Applying Physics, <i>TWE</i> pp. 431, 434 _____ Tech Prep, <i>TWE</i> p. 431 Demonstration 18-3, <i>TWE</i> p. 432 _____ Connections to Law, <i>TWE</i> p. 435 _____ Connections to Medicine, <i>TWE</i> p. 437 | <ul style="list-style-type: none"> Quick Demo, <i>TWE</i> p. 436 Transparencies 29, 30 Masters and Worksheets, pp. 59–64, <i>TCR</i> <i>Physics Lab and Pocket Lab Worksheets</i>, pp. 91–92, 98–99, <i>TCR</i> <i>Laboratory Manual</i>, Lab 18.2, <i>TCR</i> _____ <i>Spanish Resources</i>, <i>TCR</i> |
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Assess/Reteach

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| <ul style="list-style-type: none"> Section Review, <i>SE</i> p. 438 _____ Checking for Understanding, <i>TWE</i> p. 437 Reteaching, <i>TWE</i> p. 438 <i>Study Guide</i>, pp. 106–108, <i>TCR</i> | <ul style="list-style-type: none"> <i>Reteaching</i>, p. 23, <i>TCR</i> _____ <i>Supplemental Problems</i>, <i>TCR</i> <i>Reviewing Physics: Mastering the Georgia QCC</i>, <i>TCR</i> |
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Enrichment/Application

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| <ul style="list-style-type: none"> _____ Enrichment, <i>TWE</i> pp. 430, 437 _____ Cultural Diversity, <i>TWE</i> p. 434 Extension, <i>TWE</i> p. 438 | <ul style="list-style-type: none"> _____ <i>Critical Thinking</i>, p. 24, <i>TCR</i> _____ <i>Enrichment</i>, pp. 35–36, <i>TCR</i> |
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Close

- Convergent Question, *TWE* p. 438

Chapter Assessment

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| <ul style="list-style-type: none"> Chapter Review, <i>SE</i> pp. 439–441 _____ Assessment, <i>TWE</i> p. 436 <i>Chapter Assessment</i>, pp. 81–86, <i>TCR</i> | <ul style="list-style-type: none"> _____ <i>Alternate Assessment in the Science Classroom</i> _____ <i>Performance Assessment in the Science Classroom</i> |
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Multimedia Options

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| <ul style="list-style-type: none"> Videotape: <i>MindJogger Videoquizzes</i> Videodisc: <i>STVS Physics</i>, Disc 1, Side 2, Ch. 13 | <ul style="list-style-type: none"> _____ TestCheck Software |
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