

# 16.1 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

## Light Fundamentals

### Section Objectives

- \_\_\_\_\_ Recognize that light is the visible portion of an entire range of electromagnetic frequencies.
- \_\_\_\_\_ Describe the ray model of light.
- \_\_\_\_\_ Solve problems involving the speed of light.
- \_\_\_\_\_ Define *luminous intensity*, *luminous flux*, and *illuminance*.
- \_\_\_\_\_ Solve illumination problems.

**National Science Content Standards** UCP.1, UCP.2, UCP.3, A.1, A.2, B.6, E.1, E.2, F.6, G.2, G.3  
**Georgia QCC** 1, 1.1, 1.2, 1.3, 1.4, 7.2, 14, 14.1, 14.3, 14.4, 14.6, 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: 2 sessions


### Focus

-  Focus Strategy, TWE p. 374


### Teach

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|---|--|
| _____ Help Wanted, SE p. 376  | _____ Applying Physics, TWE p. 379   |
|  Physics Lab, SE p. 377                | _____ Tech Prep, TWE p. 381  |
| _____ Physics & Technology, SE p. 378   | _____ <i>Graphing Calculators in the Science Classroom</i>   |
|  Pocket Lab, SE p. 380                |  <i>Physics Lab and Pocket Lab Worksheets</i> , pp. 79–81, TCR |
|  Quick Demos, TWE pp. 373, 375       |  <i>Laboratory Manual</i> , Lab 16.2, TCR                     |
| _____ Physics Journal, TWE p. 375   | _____ <i>Spanish Resources</i> , TCR   |
|  Demonstration 16-1, TWE pp. 378–379 |  |

### Assess/Reteach

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|---|---|
|  Section Review, SE p. 381 |  Study Guide, pp. 91–93, TCR |
| _____ Checking for Understanding, TWE p. 381  | _____ <i>Supplemental Problems</i> , TCR  |
|  Reteaching, TWE p. 381    |   |

### Enrichment/Application

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|---|---|
| _____ Enrichment, TWE pp. 376, 378, 379   | _____ <i>Critical Thinking</i> , p. 22, TCR |
| _____ Cultural Diversity, TWE p. 376  | _____ <i>Enrichment</i> , pp. 31–32, TCR    |
|  Extension, TWE p. 381 |   |



### Close

-  Closing Strategy, TWE p. 381

### Chapter Assessment

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|--|--|
| _____ Assessment, TWE p. 379                               | _____ <i>Performance Assessment in the Science Classroom</i> |
| _____ <i>Alternate Assessment in the Science Classroom</i> |  |

### Multimedia Options

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|--|---------------------------------|
|  Videotape: <i>MindJogger Videoquizzes</i>      | _____ <b>TestCheck Software</b> |
|  Videodisc: STVS Physics, Disc 1, Side 1, Ch. 9 |                                 |