



# 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 Electric Fields

### Section Objectives

- \_\_\_\_\_ Define and calculate electric potential difference.
- \_\_\_\_\_ Explain how Millikan used electric fields to find the charge of the electron.
- \_\_\_\_\_ Determine where charges reside on solid and hollow conductors.
- \_\_\_\_\_ Describe capacitance and solve capacitor problems.

**National Science Content Standards** UCP.2, UCP.3, A.1, A.2, B.4, B.6, C.6, D.1, E.1, E.2, F.6, G.3  
**Georgia QCC** 1, 1.1, 1.2, 1.3, 1.4, 16, 16.1, 24, 24.1, 24.3, 24.5, 24.6, 24.7, 24.9, 24.10

### Schedule

Block schedule: 2 sessions  
 Single-period schedule: 3 sessions

### Focus

- \_\_\_\_\_ Discrepant Event, *TWE* p. 488

### Teach

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| <ul style="list-style-type: none"> <li>_____ Help Wanted, <i>SE</i> p. 489</li> <li>_____ Biology Connection, <i>SE</i> p. 493</li> <li> _____ Physics Lab, <i>SE</i> p. 496</li> <li>_____ Applying Physics, <i>TWE</i> pp. 490, 495</li> <li>_____ Connections to Biology, <i>TWE</i> p. 490</li> <li>_____ Physics Journal, <i>TWE</i> p. 492</li> <li> _____ Quick Demos, <i>TWE</i> pp. 492, 497, 498, 499</li> <li>_____ Tech Prep, <i>TWE</i> p. 494</li> </ul> | <ul style="list-style-type: none"> <li> _____ Demonstration 21-2, <i>TWE</i> pp. 498–499</li> <li> _____ Transparencies 35, 36 Masters and Worksheets, pp. 75–78, <i>TCR</i></li> <li> _____ <i>Physics Lab and Pocket Lab Worksheets</i>, pp. 111–112, <i>TCR</i></li> <li> _____ <i>Laboratory Manual</i>, Lab 21.1, <i>TCR</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. 501</li> <li>_____ Checking for Understanding, <i>TWE</i> p. 500</li> <li> _____ Reteaching, <i>TWE</i> p. 500</li> <li> _____ <i>Study Guide</i>, pp. 124–126, <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>_____ Cultural Diversity, <i>TWE</i> p. 492</li> <li>_____ Enrichment, <i>TWE</i> p. 494</li> <li> _____ Extension, <i>TWE</i> p. 500</li> </ul> | <ul style="list-style-type: none"> <li>_____ <i>Critical Thinking</i>, p. 27, <i>TCR</i></li> <li>_____ <i>Enrichment</i>, pp. 41–42, <i>TCR</i></li> </ul> |
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### Close

- \_\_\_\_\_ Activity, *TWE* p. 501

### Chapter Assessment

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| <ul style="list-style-type: none"> <li> _____ Chapter Review, <i>SE</i> pp. 502–505</li> <li>_____ Assessment, <i>TWE</i> p. 491, 500</li> <li> _____ <i>Chapter Assessment</i>, pp. 99–102, <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>Videotape:</b> <i>MindJogger Videoquizzes</i></li> <li> _____ <b>Videotape:</b> <i>The Mechanical Universe</i>, Quads 3, 5</li> </ul> | <ul style="list-style-type: none"> <li> _____ <b>Videodisc:</b> <i>STVS Earth and Space</i>, Disc 3, Side 1, Ch. 13</li> <li>_____ <b>TestCheck Software</b></li> </ul> |
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