



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

Using Electric Energy

Section Objectives

- _____ Explain how electric energy is converted into thermal energy.
- _____ Determine why high-voltage transmission lines are used to carry electric energy over long distances.
- _____ Define *kilowatt-hour*.

National Science Content Standards UCP.1, UCP.3, A.1, A.2, B.5, F.6, G.1, G.3
Georgia QCC 1, 1.2, 1.3, 1.4, 17, 17.1, 17.2, 17.5, 24.3, 24.6
Schedule
 Block schedule: 1 1/2 sessions
 Single-period schedule: 3 sessions

Focus

- Focus Strategy, TWE p. 520

Teach

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| <ul style="list-style-type: none"> Pocket Labs, SE pp. 521, 522 Demonstration 22-2, TWE pp. 522–523 Quick Demo, TWE p. 523 _____ Physics Journal, TWE p. 524 _____ <i>Graphing Calculators in the Science Classroom</i> | <ul style="list-style-type: none"> <i>Physics Lab and Pocket Lab Worksheets</i>, pp. 120–121, TCR <i>Laboratory Manual</i>, Lab 22.2, TCR _____ <i>Physics Skills</i>, Skill 19, pp. 39–40, TCR _____ <i>Spanish Resources</i>, TCR |
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Assess/Reteach

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| <ul style="list-style-type: none"> Section Review, SE p. 525 _____ Checking for Understanding, TWE p. 524 Reteaching, TWE p. 525 <i>Study Guide</i>, p. 132, TCR | <ul style="list-style-type: none"> _____ <i>Supplemental Problems</i>, TCR <i>Reviewing Physics: Mastering the Georgia QCC</i>, TCR |
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Enrichment/Application

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| <ul style="list-style-type: none"> _____ Enrichment, TWE p. 522 Extension, TWE p. 525 | <ul style="list-style-type: none"> <i>Tech Prep Applications</i>, pp. 33–34, TCR <i>Critical Thinking</i>, pp. 28–29, TCR |
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Close

- Activity, TWE p. 525

Chapter Assessment

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| <ul style="list-style-type: none"> Chapter Review, SE pp. 526–529 _____ Assessment, TWE p. 525 <i>Chapter Assessment</i>, pp. 103–106, TCR | <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> | <ul style="list-style-type: none"> _____ TestCheck Software |
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