



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

Electric and Magnetic Fields in Space

Section Objectives

- _____ Describe how electric and magnetic fields can produce more electric and magnetic fields.
- _____ Explain how accelerated charges produce electromagnetic waves.
- _____ Explain the process by which electromagnetic waves are detected.

National Science Content Standards UCP.1, UCP.2, UCP.3, UCP.5, A.1, A.2, B.4, E.1, E.2, F.1, F.6, G.3
Georgia QCC 1, 12, 12.1, 12.4, 14.1, 15, 15.1, 20.1, 24, 24.3, 24.4, 24.5, 24.6, 24.7, 24.9, 24.10

Schedule

Block schedule: 1 session
 Single-period schedule: 2 sessions

Focus

- _____ Discrepant Event, *TWE* p. 613

Teach

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| <ul style="list-style-type: none"> _____ Pocket Labs, <i>SE</i> pp. 614, 617 _____ How It Works, <i>SE</i> p. 618 _____ Quick Demos, <i>TWE</i> pp. 614, 615 _____ Applying Physics, <i>TWE</i> p. 616 _____ Demonstration 26-2, <i>TWE</i> pp. 616–617 _____ Tech Prep, <i>TWE</i> p. 616 _____ Physics Journal, <i>TWE</i> p. 619 | <ul style="list-style-type: none"> _____ Connections to Biology, <i>TWE</i> p. 619 _____ Transparency 48 Master and Worksheet, pp. 105–106, <i>TCR</i> _____ <i>Physics Lab and Pocket Lab Worksheets</i>, pp. 144–145, <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. 620 _____ Checking for Understanding, <i>TWE</i> p. 620 _____ Reteaching, <i>TWE</i> p. 620 _____ <i>Study Guide</i>, pp. 154–156, <i>TCR</i> | <ul style="list-style-type: none"> _____ <i>Reteaching</i>, p. 33, <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"> _____ Cultural Diversity, <i>TWE</i> p. 615 _____ Extension, <i>TWE</i> p. 620 _____ <i>Enrichment</i>, pp. 51–52, <i>TCR</i> | <ul style="list-style-type: none"> _____ <i>Critical Thinking</i>, p. 33, <i>TCR</i> _____ <i>Tech Prep Applications</i>, pp. 43–46, <i>TCR</i> |
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Close

- _____ Closing Strategy, *TWE* p. 620

Chapter Assessment

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| <ul style="list-style-type: none"> _____ Chapter Review, <i>SE</i> pp. 621–623 _____ Assessment, <i>TWE</i> p. 615 _____ <i>Chapter Assessment</i>, pp. 119–122, <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"> _____ CD-ROM: Magnetic Fields, <i>PCA</i> _____ Videotape: <i>MindJogger Videoquizzes</i> _____ Videotape: <i>The Mechanical Universe</i>, Quad 6 | <ul style="list-style-type: none"> _____ Videodisc: <i>STVS Physics</i>, Disc 1, Side 1, Chs. 9, 19; Disc 1, Side 2, Ch. 21; Earth and Space, Disc 3, Side 1, Ch. 10 _____ TestCheck Software |
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