



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

Forces Caused by Magnetic Fields

Section Objectives

- _____ Relate magnetic induction to the direction of the force on a current-carrying wire in a magnetic field.
- _____ Solve problems involving magnetic field strength and the forces on current-carrying wires, and on moving, charged particles in magnetic fields.
- _____ Describe the design and operation of an electric motor.

National Science Content Standards UCP.1, UCP.2, UCP.3, UCP.5, A.2, B.4, E.1, E.2, G.3
Georgia QCC 17.6, 18, 18.1, 24, 24.3, 24.5, 24.6, 24.7, 24.8, 24.9, 24.10
Schedule
 Block schedule: 2 sessions
 Single-period schedule: 4 sessions

Focus

- Activity, TWE p. 567

Teach

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| <ul style="list-style-type: none"> _____ Help Wanted, SE p. 574 Quick Demo, TWE p. 568 _____ Applying Physics, TWE p. 572 Demonstration 24-2, TWE pp. 572–573 _____ Physics Journal, TWE p. 573 | <ul style="list-style-type: none"> Transparencies 42, 43 Masters and Worksheets, pp. 93–96, TCR Laboratory Manual, Lab 24.3, TCR _____ Spanish Resources, TCR |
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Assess/Reteach

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| <ul style="list-style-type: none"> Section Review, SE p. 574 _____ Checking for Understanding, TWE p. 573 Reteaching, TWE p. 573 Study Guide, pp. 142–144, TCR | <ul style="list-style-type: none"> Reteaching, p. 30, TCR _____ Supplemental Problems, TCR Reviewing Physics: Mastering the Georgia QCC, TCR |
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Enrichment/Application

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| <ul style="list-style-type: none"> _____ Cultural Diversity, TWE p. 568 _____ Enrichment, TWE p. 571 | <ul style="list-style-type: none"> Extension, TWE p. 573 _____ Critical Thinking, p. 31, TCR |
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Close

- Activity, TWE p. 574

Chapter Assessment

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| <ul style="list-style-type: none"> Chapter Review, SE pp. 575–579 _____ Assessment, TWE p. 569 Chapter Assessment, pp. 111–114, TCR | <ul style="list-style-type: none"> _____ Alternate Assessment in the Science Classroom _____ Performance Assessment in the Science Classroom |
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Multimedia Options

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| <ul style="list-style-type: none"> CD-ROM: Magnetic Fields, PCA Videotape: MindJogger Videoquizzes Videotape: The Mechanical Universe, Quad 6 | <ul style="list-style-type: none"> Videodisc: STVS Physics, Disc 1, Side 1, Ch. 20; Earth and Space, Disc 3, Side 1, Ch. 3 _____ TestCheck Software |
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