



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

The Building Blocks of Matter

Section Objectives

- _____ Describe the operation of particle detectors and particle accelerators.
- _____ Define antiparticles and calculate the energy of γ rays emitted when particles and their antiparticles annihilate one another.
- _____ Describe the quark and lepton model of matter and explain the role of force carriers.

National Science Content Standards UCP.1, UCP.2, UCP.3, UCP.5, A.1, A.2, B.2, B.4, E.1, E.2, F.6, G.3
Georgia QCC 1, 1.2, 1.3, 1.4, 9, 9.1, 22, 22.1, 22.3, 22.4, 22.6, 23, 23.1, 23.2, 24.3
Schedule
 Block schedule: optional lesson
 Single-period schedule: 3 sessions

Focus

- _____ Focus Strategy, TWE p. 701

Teach

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| <ul style="list-style-type: none"> _____ Pocket Lab, SE p. 706 _____ How It Works, SE p. 709 _____ Literature Connection, SE p. 711 _____ Quick Demo, TWE p. 702 _____ Applying Physics, TWE p. 703 _____ Demonstration 30-2, TWE pp. 704–705 | <ul style="list-style-type: none"> _____ Physics Journal, TWE p. 706 _____ Transparencies 55, 56 Masters and Worksheets, pp. 121–124, TCR _____ Physics Lab and Pocket Lab Worksheets, p. 164, TCR _____ Spanish Resources, TCR |
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Assess/Reteach

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| <ul style="list-style-type: none"> _____ Section Review, SE p. 712 _____ Checking for Understanding, TWE p. 711 _____ Reteaching, TWE p. 712 _____ Study Guide, pp. 178–180, TCR | <ul style="list-style-type: none"> _____ Reteaching, pp. 38–39, 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"> _____ Enrichment, TWE p. 705 _____ Project, TWE p. 707 _____ Cultural Diversity, TWE p. 711 | <ul style="list-style-type: none"> _____ Extension, TWE p. 712 _____ Tech Prep Applications, pp. 45–48, TCR |
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Close

- _____ Convergent Question, TWE p. 712

Chapter Assessment

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| <ul style="list-style-type: none"> _____ Chapter Review, SE pp. 713–715 _____ Assessment, TWE p. 708 _____ Chapter Assessment, pp. 135–140, 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"> _____ Videotape: MindJogger Videoquizzes _____ Videotape: The Mechanical Universe, Quad 2 | <ul style="list-style-type: none"> _____ Videodisc: STVS Physics, Disc 1, Side 1, Ch. 20 _____ TestCheck Software |
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