



4.2

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

Components of Vectors

Section Objectives

- _____ Establish a coordinate system in problems involving vector quantities.
- _____ Use the process of resolution of vectors to find the components of vectors.
- _____ Determine algebraically the sum of two or more vectors by adding the components of the vectors.

National Science Content Standards UCP.2, UCP.3, A.1, A.2, B.4, G.3

Georgia QCC 1, 2.1, 2.2, 2.3, 24.3

Schedule

Block schedule: 2 1/2 sessions
 Single-period schedule: 4 sessions

Focus

- Focus Strategy, *TWE* p. 72

Teach

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| <ul style="list-style-type: none"> Pocket Lab, <i>SE</i> p. 74 Quick Demo, <i>TWE</i> p. 73 _____ Connections to Mathematics, <i>TWE</i> p. 73 _____ Physics Journal, <i>TWE</i> p. 74 Demonstration 4-2, <i>TWE</i> pp. 74–75 | <ul style="list-style-type: none"> Transparency 5 Master and Worksheet, pp. 11–12, <i>TCR</i> <i>Physics Lab and Pocket Lab Worksheets</i>, p. 16, <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. 76 _____ Checking for Understanding, <i>TWE</i> p. 76 Reteaching, <i>TWE</i> p. 76 <i>Study Guide</i>, pp. 23–24, <i>TCR</i> | <ul style="list-style-type: none"> <i>Reteaching</i>, p. 5, <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

- _____ Extension, *TWE* p. 76

Close

- _____ *Critical Thinking*, pp. 6–7, *TCR*
- Convergent Question, *TWE* p. 76

Chapter Assessment

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| <ul style="list-style-type: none"> Chapter Review, <i>SE</i> pp. 77–79 _____ Assessment, <i>TWE</i> p. 72 | <ul style="list-style-type: none"> <i>Chapter Assessment</i>, pp. 13–16, <i>TCR</i> _____ <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: Acceleration; Vectors, <i>PCA</i> | <ul style="list-style-type: none"> Videotape: <i>MindJogger Videoquizzes</i> _____ TestCheck Software |
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