

2 Applying Decimals



Chapter Pacing Guide

Please note that this pacing guide is based upon completing the entire text in 165 classes, approximately 50 minutes each. More time can be allotted for this chapter if you do not plan to teach the entire text.

<i>Day (Standard)</i>	<i>Day (Honors)</i>	<i>Lesson</i>	<i>Title</i>
1	1	*Chapter Project	Theme: Solar System How Big Is Our Solar System?
2	2	2-1	Comparing and Ordering Decimals
3	3	2-2	Rounding Decimals
4	4	2-3	Estimating with Decimals
5	5	2-3B	THINKING LAB Problem Solving Reasonable Answers
6	6	2-4	Multiplying Decimals
7	7	2-5	Powers of Ten
8		*2-6A	HANDS-ON LAB Cooperative Learning Division with Decimal Models
9	8	2-6	Dividing Decimals
10	9	2-7	Decimals and Fractions
11	10	2-8	Integration: Measurement The Metric System
12	11	2-9	Scientific Notation
13	12	Review: Study Guide and Assessment	
14	13	Assessment: Chapter Test	

* *Optional*

Chapter Resources

<p>Meeting Individual Needs <i>Investigations for the Special Education Student</i>, Dining Out, p. 7 <i>Spanish Study Guide and Assessment</i> <i>Study Guide and Practice Workbook</i></p>	<p>Technology <i>Electronic Teacher's Classroom</i> <i>Resources (ETCR)</i> www.glencoe.com/sec/math/mac/mathnet</p>
<p>Interactive Mathematics: Activities and Investigations Units 2 and 7</p>	<p>Applications <i>Family Letters and Activities</i>, pp. 29-30 <i>Spanish Family Letters and Activities</i>, pp. 29-30</p>



Chapter Project (pp. 42-43)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Understand what an astronomical unit is and how it is used in astronomy.
- _____ Differentiate the size of each planet in comparison to Earth and estimate how far each planet is from the Sun.
- _____ State/local objectives: _____

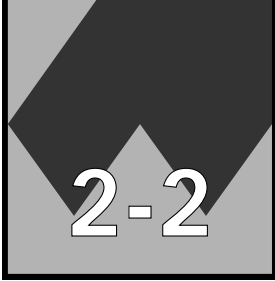
Theme: Solar System

- _____ Chapter Project, *SE*, p. 43
- _____ Chapter 2 Notes, *TWE*, p. 42
- _____ Question of the Day, *TWE*, p. 42
- _____ ⇨ *Investigations and Projects Masters*, pp. 21-24

Homework Assignments

- _____ p. 46, Working on the Chapter Project, Exercise 28
- _____ p. 59, Working on the Chapter Project, Exercise 32
- _____ p. 76, Working on the Chapter Project, Exercise 27
- _____ p. 83, Completing the Chapter Project, Alternative Assessment

KEY SE = Student Edition TWE = Teacher's Wraparound Edition ⇨ = Other Program Components



Lesson Planning Guide (pp. 47-49)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Round decimals.
- _____ State/local objectives: _____

NCTM Standards: 1, 5-10
South Carolina Math Curriculum Standards Grade 7: NO I.B.1.

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 47
- _____ ⇨ Transparency 2-2A
- _____ Motivating the Lesson, Problem Solving, *TWE*, p. 47
- _____ Multiple Learning Styles, Interpersonal, *TWE*, p. 47

2 TEACH

- _____ ⇨ Transparency 2-2B
- _____ Reading Mathematics, *TWE*, p. 47
- _____ In-Class Examples, *TWE*, p. 48
- _____ ⇨ *Study Guide Masters*, p. 9
- _____ Reteaching the Lesson, *TWE*, p. 48
- _____ ⇨ *CD-ROM Program*, Resource Lesson 2-2

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 48

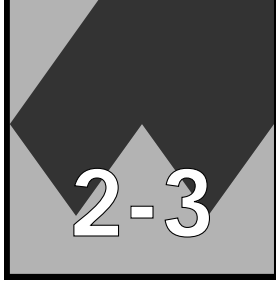
Homework Assignments (p. 49)	
_____ Core: 11-31 odd, 32-36	_____ Enriched: 12-28 even, 30-36
_____ Alternate Assignment: _____	

- _____ Extra Practice, *SE*, p. 571
- _____ ⇨ *Practice Masters*, p. 9
- _____ ⇨ *Hands-On Lab Masters*, p. 73
- _____ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 10

4 ASSESS

- _____ Closing Activity, Speaking, *TWE*, p. 49
- _____ Extending the Lesson, *TWE*, p. 49
- _____ ⇨ *Enrichment Masters*, p. 9

KEY	SE = Student Edition	TWE = Teacher's Wraparound Edition	⇨ = Other Program Components
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Lesson Planning Guide (pp. 50-53)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Estimate with decimals.
- _____ State/local objectives: _____

NCTM Standards: 1, 5-10
South Carolina Math Curriculum Standards Grade 7: NO III.C.1.

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 50
- _____ ⇨ Transparency 2-3A
- _____ Motivating the Lesson, Hands-On Activity, *TWE*, p. 50

2 TEACH

- _____ ⇨ Transparency 2-3B
- _____ Using Discussion, *TWE*, p. 51
- _____ In-Class Examples, *TWE*, p. 51
- _____ ⇨ *Study Guide Masters*, p. 10
- _____ Reteaching the Lesson, *TWE*, p. 51
- _____ Error Analysis, *TWE*, p. 51
- _____ ⇨ *Transition Booklet*, pp. 15-18
- _____ ⇨ *CD-ROM Program*, Resource Lesson 2-3
- _____ ⇨ *Interactive Mathematics Tools Software*

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 51

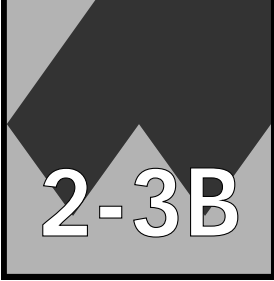
Homework Assignments (pp. 52-53)	
_____ Core: 13-37 odd, 39-44	_____ Enriched: 12-34 even, 35-44
_____ Alternate Assignment: _____	

- _____ Extra Practice, *SE*, p. 571
- _____ ⇨ Practice Masters, p. 10
- _____ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 11

4 ASSESS

- _____ Closing Activity, Speaking, *TWE*, p. 53
- _____ ⇨ *Assessment and Evaluation Masters*, Quiz A, p. 43
- _____ Extending the Lesson, *TWE*, p. 53
- _____ ⇨ *Enrichment Masters*, p. 10

KEY	<i>SE</i> = Student Edition	<i>TWE</i> = Teacher's Wraparound Edition	⇨ = Other Program Components
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Lesson Planning Guide (pp. 54-55)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Solve problems by determining reasonable answers.
- _____ State/local objectives: _____

NCTM Standards: 1-3, 5-10
South Carolina Math Curriculum Standards Grade 7: NO III.C.1.

1 FOCUS

- _____ Getting Started, *TWE*, p. 54

2 TEACH

- _____ In-Class Example, *TWE*, p. 54
- _____ Reteaching the Lesson, *TWE*, p. 54

3 PRACTICE/APPLY

- _____ Check for Understanding, *TWE*, p. 55

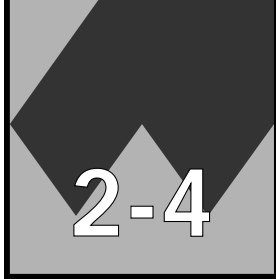
Homework Assignments (p. 55)
_____ All: 5-15
_____ Alternate Assignment: _____

- _____ Extra Practice, *SE*, p. 571
- _____ Mixed Problem Solving, *SE*, pp. 605-606

4 ASSESS

- _____ Closing Activity, *TWE*, p. 55
- _____ Extending the Lesson, *TWE*, p. 55

KEY	SE = Student Edition	TWE = Teacher's Wraparound Edition	↔ = Other Program Components
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Lesson Planning Guide (pp. 56-59)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Multiply decimals.
- _____ State/local objectives: _____

NCTM Standards: 1-3, 5-10
South Carolina Math Curriculum Standards Grade 7: NO III.A.1., NO III.C.1.

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 56
- _____ ⇨ Transparency 2-4A
- _____ Motivating the Lesson, Hands-On Activity, *TWE*, p. 56

2 TEACH

- _____ ⇨ Transparency 2-4B
- _____ Using the Mini-Lab, *TWE*, p. 57
- _____ ⇨ *Teacher's Guide for Overhead Manipulative Resources*, Mini-Lab for Lesson 2-4
- _____ Multiple Learning Styles, Logical, *TWE*, p. 56
- _____ In-Class Examples, *TWE*, p. 57
- _____ ⇨ *Study Guide Masters*, p. 11
- _____ Reteaching the Lesson, *TWE*, p. 58
- _____ Error Analysis, *TWE*, p. 58
- _____ ⇨ *Transition Booklet*, pp. 19-20
- _____ ⇨ *CD-ROM Program*, Resource Lesson 2-4, Interactive Lesson 2-4
- _____ ⇨ *Interactive Mathematics Tools Software*

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 58

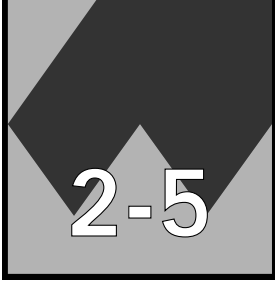
Homework Assignments (pp. 58-59)	
_____ Core: 11-31 odd, 33-37	_____ Enriched: 10-28 even, 29-31, 33-37
_____ Optional: 32 (Working on the Chapter Project)	
_____ Alternate Assignment: _____	

- _____ Extra Practice, *SE*, p. 572
- _____ ⇨ *Practice Masters*, p. 11
- _____ School to Career Activity, *SE*, p. 60
- _____ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 12

4 ASSESS

- _____ Closing Activity, Speaking, *TWE*, p. 59
- _____ Extending the Lesson, *TWE*, p. 59
- _____ ⇨ *Enrichment Masters*, p. 11
- _____ Mid-Chapter Self Test, *SE*, p. 59

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Lesson Planning Guide (pp. 61-63)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Multiply decimals mentally by powers of ten.
- _____ State/local objectives: _____

NCTM Standards: 1, 2, 5-10
South Carolina Math Curriculum Standards Grade 7: NO III.A.1., ALG I.A.1.

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 61
- _____ ⇨ Transparency 2-5A
- _____ Motivating the Lesson, Problem Solving, *TWE*, p. 61

2 TEACH

- _____ ⇨ Transparency 2-5B
- _____ Thinking Algebraically, *TWE*, p. 62
- _____ Multiple Learning Styles, Intrapersonal, *TWE*, p. 61
- _____ In-Class Examples, *TWE*, p. 62
- _____ ⇨ *Study Guide Masters*, p. 12
- _____ Reteaching the Lesson, *TWE*, p. 62
- _____ Error Analysis, *TWE*, p. 62
- _____ ⇨ *CD-ROM Program*, Resource Lesson 2-5

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 62

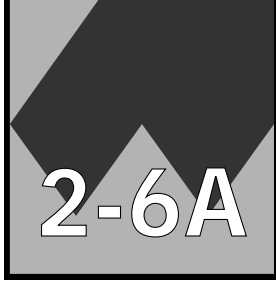
Homework Assignments (p. 63)	
_____ Core: 11-31 odd, 32-36	_____ Enriched: 12-28 even, 30-36
_____ Alternate Assignment: _____	

- _____ Extra Practice, *SE*, p. 572
- _____ ⇨ *Practice Masters*, p. 12
- _____ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 13

4 ASSESS

- _____ Closing Activity, Writing, *TWE*, p. 63
- _____ ⇨ *Assessment and Evaluation Masters*, Mid-Chapter Test, p. 42
- _____ ⇨ *Assessment and Evaluation Masters*, Quiz B, p. 43
- _____ Extending the Lesson, *TWE*, p. 63
- _____ ⇨ *Enrichment Masters*, p. 12

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Lesson Planning Guide (pp. 64-65)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Use decimal models to model the division of decimals.
- _____ State/local objectives: _____

NCTM Standards: 1, 6-10
South Carolina Math Curriculum Standards Grade 7: NO III.A.1.

MANAGEMENT

- _____ Getting Started, *TWE*, p. 64
- _____ ⇨ *Hands-On Lab Masters*, p. 10: grid paper
- _____ ⇨ *Teacher's Guide for Overhead Manipulative Resources*, Lesson 2-6A
- _____ ⇨ *Overhead Manipulative Resources*: decimal models

ASSESS

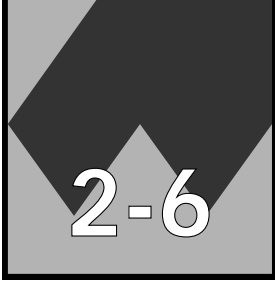
- _____ *TWE*, p. 65
- _____ ⇨ *Hands-On Lab Masters*, p. 40

Class Activity (pp. 64-65)

- _____ All: 1-15
- _____ Alternate Assignment: _____

- _____ Math Journal, *TWE*, p. 65

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Lesson Planning Guide (pp. 66-69)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Divide decimals.
- _____ State/local objectives: _____

NCTM Standards: 1-9
South Carolina Math Curriculum Standards Grade 7: NO III.A.1., NO III.C.1.

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 66
- _____ ⇨ Transparency 2-6A
- _____ Motivating the Lesson, Communication, *TWE*, p. 66

2 TEACH

- _____ ⇨ Transparency 2-6B
- _____ Using the Mini-Lab, *TWE*, p. 66
- _____ ⇨ *Teacher's Guide for Overhead Manipulative Resources*, Mini-Lab for Lesson 2-6
- _____ In-Class Examples, *TWE*, p. 67
- _____ ⇨ *Study Guide Masters*, p. 13
- _____ Reteaching the Lesson, *TWE*, p. 68
- _____ ⇨ *Transition Booklet*, pp. 21-22
- _____ ⇨ *CD-ROM Program*, Resource Lesson 2-6

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 68

Homework Assignments (pp. 68-69)

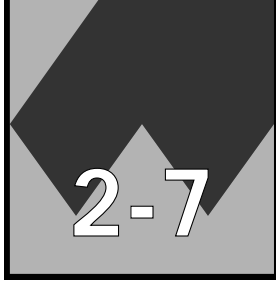
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|-----------------------------------|-----------------------------------|
| _____ Core: 13-41 odd, 42-47 | _____ Enriched: 12-36 even, 38-47 |
| _____ Alternate Assignment: _____ | |

- _____ Extra Practice, *SE*, p. 572
- _____ ⇨ *Practice Masters*, p. 13
- _____ ⇨ *Technology Masters*, Calculator Activity, p. 29
- _____ ⇨ *Diversity Masters*, p. 15
- _____ Family Activity, *SE*, p. 68
- _____ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 14

4 ASSESS

- _____ Closing Activity, Modeling, *TWE*, p. 69
- _____ Extending the Lesson, *TWE*, p. 69
- _____ ⇨ *Enrichment Masters*, p. 13

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Lesson Planning Guide (pp. 70-73)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Express fractions as terminating or repeating decimals.
- _____ State/local objectives: _____

NCTM Standards: 1, 5-10
South Carolina Math Curriculum Standards Grade 7: NO I.A.1.

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 70
- _____ ⇨ Transparency 2-7A
- _____ Motivating the Lesson, Problem Solving, *TWE*, p. 70

2 TEACH

- _____ ⇨ Transparency 2-7B
- _____ Reading Mathematics, *TWE*, p. 71
- _____ In-Class Examples, *TWE*, p. 71
- _____ ⇨ *Study Guide Masters*, p. 14
- _____ Reteaching the Lesson, *TWE*, p. 71
- _____ Error Analysis, *TWE*, p. 71
- _____ ⇨ *CD-ROM Program*, Resource Lesson 2-7

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 71

Homework Assignments (pp. 72-73)

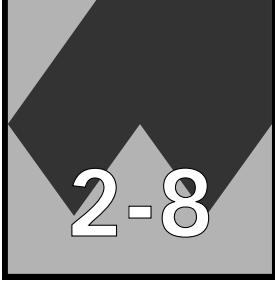
- _____ Core: 11-39 odd, 40-44 _____ Enriched: 12-34 even, 36-44
- _____ Alternate Assignment: _____

- _____ Extra Practice, *SE*, p. 573
- _____ ⇨ *Practice Masters*, p. 14
- _____ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 15

4 ASSESS

- _____ Let the Games Begin, *SE*, p. 73
- _____ Closing Activity, Writing, *TWE*, p. 73
- _____ ⇨ *Assessment and Evaluation Masters*, Quiz C, p. 44
- _____ Extending the Lesson, *TWE*, p. 73
- _____ ⇨ *Enrichment Masters*, p. 14

KEY <i>SE</i> = Student Edition <i>TWE</i> = Teacher's Wraparound Edition ⇨ = Other Program Components
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Lesson Planning Guide (pp. 74-76)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Change metric units of length, capacity, and mass.
- _____ State/local objectives: _____

NCTM Standards: 1, 4, 6-10
South Carolina Math Curriculum Standards Grade 7: ALG I.A.1., MEA I.A.1., MEA I.B.1.

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 74
- _____ ⇨ Transparency 2-8A
- _____ Motivating the Lesson, Hands-On Activity, *TWE*, p. 74

2 TEACH

- _____ ⇨ Transparency 2-8B
- _____ Thinking Algebraically, *TWE*, p. 75
- _____ In-Class Examples, *TWE*, p. 75
- _____ ⇨ *Study Guide Masters*, p. 15
- _____ Reteaching the Lesson, *TWE*, p. 75
- _____ ⇨ *Transition Booklet*, pp. 35-36
- _____ ⇨ *CD-ROM Program*, Resource Lesson 2-8, Interactive Lesson 2-8

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 76

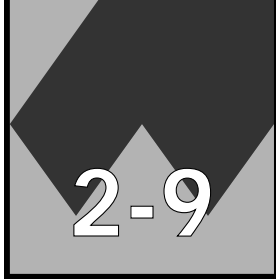
Homework Assignments (p. 76)	
_____ Core: 11-25 odd, 26, 28-32	_____ Enriched: 10-26 even, 28-32
_____ Optional: 27 (Working on the Chapter Project)	
_____ Alternate Assignment: _____	

- _____ Extra Practice, *SE*, p. 573
- _____ ⇨ *Practice Masters*, p. 15
- _____ ⇨ *Science and Mathematics Lab Manual*, pp. 25-28
- _____ ⇨ *Classroom Games*, pp. 5-8
- _____ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 16

4 ASSESS

- _____ Closing Activity, Writing, *TWE*, p. 76
- _____ Extending the Lesson, *TWE*, p. 76
- _____ ⇨ *Enrichment Masters*, p. 15

KEY	SE = Student Edition	TWE = Teacher's Wraparound Edition	⇨ = Other Program Components
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Lesson Planning Guide (pp. 77-79)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Express numbers greater than 100 in scientific notation.
- _____ State/local objectives: _____

NCTM Standards: 1, 6-9
South Carolina Math Curriculum Standards Grade 7: NO I.A.1., NO I.E.1., ALG I.A.1.

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 77
- _____ ⇨ Transparency 2-9A
- _____ Motivating the Lesson, Hands-On Activity, *TWE*, p. 77

2 TEACH

- _____ ⇨ Transparency 2-9B
- _____ Multiple Learning Styles, Kinesthetic, *TWE*, p. 77
- _____ Using Calculators, *TWE*, p. 78
- _____ In-Class Examples, *TWE*, p. 78
- _____ ⇨ *Study Guide Masters*, p. 16
- _____ Reteaching the Lesson, *TWE*, p. 78
- _____ Error Analysis, *TWE*, p. 78
- _____ ⇨ *CD-ROM Program*, Resource Lesson 2-9

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 78

Homework Assignments (p. 79)	
_____ Core: 11-39 odd, 40-45	_____ Enriched: 12-36 even, 37-45
_____ Alternate Assignment: _____	

- _____ Extra Practice, *SE*, p. 573
- _____ ⇨ *Practice Masters*, p. 16
- _____ ⇨ *School-to-Career Masters*, p. 15
- _____ ⇨ *Technology Masters*, Graphing Calculator Activity, p. 30
- _____ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 17

4 ASSESS

- _____ Closing Activity, Writing, *TWE*, p. 79
- _____ ⇨ *Assessment and Evaluation Masters*, Quiz D, p. 44
- _____ Extending the Lesson, *TWE*, p. 79
- _____ ⇨ *Enrichment Masters*, p. 16

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Review and Assessment (pp. 80-85)



Teacher's Name _____ Dates _____

Grade _____ Class _____

Review M Tu W Th F
Testing M Tu W Th F

- _____ Study Guide and Assessment, *SE*, pp. 80-83
- _____ Standardized Test Practice, *SE*, pp. 84-85
- _____ Chapter Test, *SE*, p. 608



⇔ **Assessment and Evaluation Masters (pp. 29-47)**

Multiple-Choice Tests

- _____ Form 1A, 1B, or 1C, pp. 29-34
- _____ Standardized Test Practice, pp. 45-46

Free-Response Tests

- _____ Form 2A, 2B, or 2C, pp. 35-40
- _____ Performance Assessment, p. 41
- _____ Cumulative Review, p. 47

- _____ ⇔ *MindJogger Videoquizzes*, Chapter 2
- _____ ⇔ *Test and Review Software*
- _____ ⇔ *CD-ROM Assessment Game*
- _____ ⇔ *State Test Preparation CD-ROM*
- _____ ⇔  *South Carolina Parent and Student Study Guide Workbook*, p. 18
- _____ ⇔  *South Carolina PACT Workbook and Test Preparation, Grade 7*

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