

5 Algebra: Using Integers



Chapter Pacing Guide

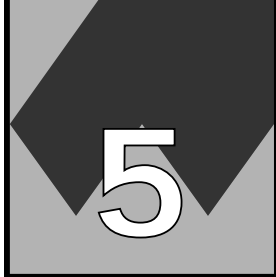
Please note that this pacing guide is based upon completing the entire text in 165 classes, approximately 50 minutes each. More time can be allotted for this chapter if you do not plan to teach the entire text.

<i>Day (Standard)</i>	<i>Day (Honors)</i>	<i>Lesson</i>	<i>Title</i>
1	1	*Chapter Project	Theme: Meteorology Latitude vs. Temperature
2	2	5-1	Integers
3	3	5-2	Comparing and Ordering Integers
4	4 & 5	5-3	Integration: Geometry The Coordinate System
		*5-3B	TECHNOLOGY LAB Graphing Calculators Graphing Points
5 & 6		*5-4A	HANDS-ON LAB Cooperative Learning Adding Integers
	6	5-4	Adding Integers
7 & 8		*5-5A	HANDS-ON LAB Cooperative Learning Subtracting Integers
	7	5-5	Subtracting Integers
9 & 10		*5-6A	HANDS-ON LAB Cooperative Learning Multiplying Integers
	8	5-6	Multiplying Integers
11	9	5-7A	THINKING LAB Problem Solving Look for a Pattern
12	10	5-7	Dividing Integers
13	11	5-8	Integration: Geometry Graphing Transformations
14	12	Review: Study Guide and Assessment	
15	3	Assessment: Chapter Test	

*Optional

Chapter Resources

<p>Meeting Individual Needs <i>Investigations for the Special Education Student</i>, The Check's in the Mail, pp. 9-12 <i>Spanish Study Guide and Assessment</i> <i>Study Guide and Practice Workbook</i></p>	<p>Technology <i>Electronic Teacher's Classroom Resources (ETCR)</i> www.glencoe.com/sec/math/mac/mathnet</p>
<p>Interactive Mathematics: Activities and Investigations Units 1 and 11</p>	<p>Applications <i>Family Letters and Activities</i>, pp. 35-36 <i>Spanish Family Letters and Activities</i>, pp. 35-36</p>



Chapter Project (pp. 182-183)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Use integers to compare highest and lowest temperatures.
- _____ Determine whether there is a relationship between latitude and temperature.
- _____ State/local objectives: _____

NCTM Standards:

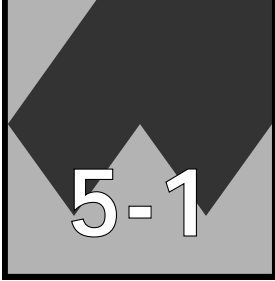
Theme: Meteorology

- _____ Chapter Project, *SE*, p. 183
- _____ Chapter 5 Notes, *TWE*, p. 182
- _____ Question of the Day, *TWE*, p. 182
- _____ ⇨ *Investigations and Projects Masters*, pp. 33-36

Homework Assignments

- _____ p. 190, Working on the Chapter Project, Exercise 25
- _____ p. 194, Working on the Chapter Project, Exercise 33
- _____ p. 205, Working on the Chapter Project, Exercise 45
- _____ p. 221, Completing the Chapter Project, Alternative Assessment

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



Lesson Planning Guide (pp. 184-187)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Read and write integers, and find the opposite and absolute value of an integer.
- _____ State/local objectives: _____

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

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 184
- _____ ⇨ Transparency 5-1A
- _____ Motivating the Lesson, Problem Solving, *TWE*, p. 184
- _____ Cross-Curriculum Cue, *TWE*, p. 184

2 TEACH

- _____ ⇨ Transparency 5-1B
- _____ Using Applications, *TWE*, p. 185
- _____ In-Class Examples, *TWE*, p. 185
- _____ ⇨ *Study Guide Masters*, p. 34
- _____ Reteaching the Lesson, *TWE*, p. 185
- _____ ⇨ *CD-ROM Program*, Resource Lesson 5-1
- _____ ⇨ *Interactive Mathematics Tools Software*

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 185

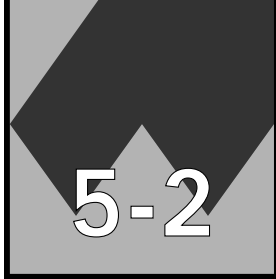
Homework Assignments (p. 186)	
_____ Core: 11-33 odd, 34-38	_____ Enriched: 12-30 even, 31-38
_____ Alternate Assignment: _____	

- _____ Extra Practice, *SE*, p. 580
- _____ ⇨ *Practice Masters*, p. 34
- _____ School to Career Activity, *SE*, p. 187
- _____ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 38

4 ASSESS

- _____ Closing Activity, Speaking, *TWE*, p. 186
- _____ Extending the Lesson, *TWE*, p. 186
- _____ ⇨ *Enrichment Masters*, p. 34

KEY	SE = Student Edition	TWE = Teacher's Wraparound Edition	⇨ = Other Program Components
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Lesson Planning Guide (pp. 188-190)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Compare and order integers.
- _____ State/local objectives: _____

NCTM Standards: 1, 6-10
South Carolina Math Curriculum Standards Grade 7: NO I.B.1., NO I.G.1.

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 188
- _____ ⇨ Transparency 5-2A
- _____ Motivating the Lesson, Problem Solving, *TWE*, p. 188
- _____ Multiple Learning Styles, Auditory/Musical, *TWE*, p. 188

2 TEACH

- _____ ⇨ Transparency 5-2B
- _____ Reading Mathematics, *TWE*, p. 188
- _____ In-Class Examples, *TWE*, p. 189
- _____ ⇨ *Study Guide Masters*, p. 35
- _____ Reteaching the Lesson, *TWE*, p. 189
- _____ Error Analysis, *TWE*, p. 189
- _____ ⇨ *CD-ROM Program*, Resource Lesson 5-2

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 189

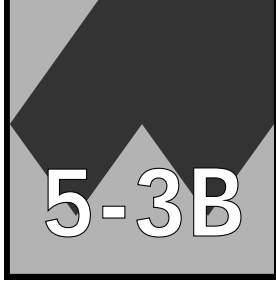
Homework Assignments (pp. 189-190)	
_____ Core: 9-23 odd, 26-29	_____ Enriched: 8-20 even, 21-24, 26-29
_____ Optional: 25 (Working on the Chapter Project)	
_____ Alternate Assignment: _____	

- _____ Extra Practice, *SE*, p. 580
- _____ ⇨ *Practice Masters*, p. 35
- _____ ⇨ *School to Career Masters*, p. 18
- _____ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 39

4 ASSESS

- _____ Closing Activity, Speaking, *TWE*, p. 190
- _____ ⇨ *Assessment and Evaluation Masters*, Quiz A, p. 127
- _____ Extending the Lesson, *TWE*, p. 190
- _____ ⇨ *Enrichment Masters*, p. 35

KEY	<i>SE</i> = Student Edition	<i>TWE</i> = Teacher's Wraparound Edition	⇨ = Other Program Components
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Lesson Planning Guide (p. 195)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Graph points on a graphing calculator.
- _____ State/local objectives: _____

NCTM Standards: 1, 3, 6-8
South Carolina Math Curriculum Standards Grade 7: GEO II.A.1.

MANAGEMENT

- _____ Getting Started, *TWE*, p. 195
- _____ ⇨ *Teacher's Guide for Overhead Manipulative Resources*, Lesson 5-3B

ASSESS

- _____ *TWE*, p. 195

Class Activity (p. 195)
_____ All: 1-4
_____ Alternate Assignment: _____

- _____ Math Journal, *TWE*, p. 195

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Lesson Planning Guide (p. 196)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Add integers by using models.
- _____ State/local objectives: _____

NCTM Standards: 1, 6-10
South Carolina Math Curriculum Standards Grade 7: NO II.A.1., NO III.A.1., NO III.B.1., NO III.B.2.

MANAGEMENT

- _____ Getting Started, *TWE*, p. 196
- _____ ⇨ *Teacher's Guide for Overhead Manipulative Resources*, Lesson 5-4A

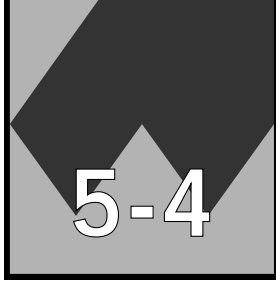
ASSESS

- _____ *TWE*, p. 196

Class Activity (p. 196)
_____ All: 1-5 _____ Alternate Assignment: _____

- _____ Math Journal, *TWE*, p. 196

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Lesson Planning Guide (pp. 197-200)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Add integers.
- _____ State/local objectives: _____

NCTM Standards: 1, 2, 6-10
South Carolina Math Curriculum Standards
Grade 7: NO I.B.1., NO II.A.1., NO III.A.1., NO III.B.1., NO III.B.2., ALG II.D.1., ALG II.D.2., GEO II.A.1.

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 197
- _____ ⇨ Transparency 5-4A
- _____ Motivating the Lesson, Hands-On-Activity, *TWE*, p. 197

2 TEACH

- _____ ⇨ Transparency 5-4B
- _____ Using Discussion, *TWE*, p. 198
- _____ In-Class Examples, *TWE*, pp. 198-199
- _____ ⇨ *Study Guide Masters*, p. 37
- _____ Let the Games Begin, *SE*, p. 198
- _____ Reteaching the Lesson, *TWE*, p. 199
- _____ Error Analysis, *TWE*, p. 199
- _____ ⇨ *CD-ROM Program*, Resource Lesson 5-4, Interactive Lesson 5-4
- _____ ⇨ *Interactive Mathematics Tools Software*

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 199

Homework Assignments (p. 200)

- _____ Core: 15-43 odd, 45-50
- _____ Enriched: 14-42 even, 43-50
- _____ Alternate Assignment: _____

- _____ Extra Practice, *SE*, p. 581
- _____ ⇨ *Practice Masters*, p. 37
- _____ ⇨ *Technology Masters*, Calculator Activity, p. 35
- _____ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 41

4 ASSESS

- _____ Closing Activity, Modeling, *TWE*, p. 200
- _____ ⇨ *Assessment and Evaluation Masters*, Mid-Chapter Test, p. 126
- _____ ⇨ *Assessment and Evaluation Masters*, Quiz B, p. 127
- _____ Extending the Lesson, *TWE*, p. 200
- _____ ⇨ *Enrichment Masters*, p. 37

KEY <i>SE</i> = Student Edition <i>TWE</i> = Teacher's Wraparound Edition ⇨ = Other Program Components
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Lesson Planning Guide (p. 201)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Subtract integers by using models.
- _____ State/local objectives: _____

NCTM Standards: 1, 6-10
South Carolina Math Curriculum Standards Grade 7: NO II.A.1., NO III.A.1., NO III.B.1., NO III.B.2.

MANAGEMENT

- _____ Getting Started, *TWE*, p. 201
- _____ ⇨ *Hands-On Lab Masters*, p. 6: counters, p. 8: integer mat
- _____ ⇨ *Teacher's Guide for Overhead Manipulative Resources*, Lesson 5-5A
- _____ ⇨ *Overhead Manipulative Resources*: counters, integer mat

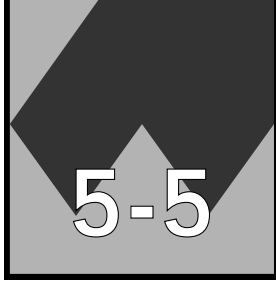
ASSESS

- _____ *TWE*, p. 201
- _____ ⇨ *Hands-On Lab Masters*, p. 47

Class Activity (p. 201)
_____ All: 1-6
_____ Alternate Assignment: _____

- _____ Math Journal, *TWE*, p. 201

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Lesson Planning Guide (pp. 202-205)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Subtract integers.
- _____ State/local objectives: _____

NCTM Standards: 1, 2, 6-10
South Carolina Math Curriculum Standards Grade 7: NO II.A.1., NO III.A.1., NO III.B.1., NO III.B.2., NO III.C.2., ALG II.D.2.

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 202
- _____ ⇨ Transparency 5-5A
- _____ Motivating the Lesson, Communication, *TWE*, p. 202
- _____ Multiple Learning Styles, Interpersonal, *TWE*, p. 202

2 TEACH

- _____ ⇨ Transparency 5-5B
- _____ Thinking Algebraically, *TWE*, p. 203
- _____ In-Class Examples, *TWE*, p. 203
- _____ ⇨ *Study Guide Masters*, p. 38
- _____ Reteaching the Lesson, *TWE*, p. 203
- _____ ⇨ *CD-ROM Program*, Resource Lesson 5-5, Interactive Lesson 5-5
- _____ ⇨ *Interactive Mathematics Tools Software*

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, pp. 203-204

Homework Assignments (pp. 204-205)	
_____ Core: 15-43 odd, 46-51	_____ Enriched: 14-42 even, 43-44, 46-51
_____ Optional: 45 (Working on the Chapter Project)	
_____ Alternate Assignment: _____	

- _____ Extra Practice, *SE*, p. 581
- _____ ⇨ *Practice Masters*, p. 38
- _____ ⇨ *Classroom Games*, pp. 13-15
- _____ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 42

4 ASSESS

- _____ Closing Activity, Writing, *TWE*, p. 204
- _____ Extending the Lesson, *TWE*, p. 205
- _____ ⇨ *Enrichment Masters*, p. 38
- _____ Mid-Chapter Self Test, *SE*, p. 205

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Lesson Planning Guide (p. 206)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Multiply integers by using models.
- _____ State/local objectives: _____

NCTM Standards: 1, 6-10
South Carolina Math Curriculum Standards Grade 7: NO II.A.1., NO III.A.1., NO III.B.1., NO III.B.2.

MANAGEMENT

- _____ Getting Started, *TWE*, p. 206
- _____ ⇨ *Hands-On Lab Masters*, p. 6: integer counters, p. 8: integer mat
- _____ ⇨ *Teacher's Guide for Overhead Manipulative Resources*, Lesson 5-6A
- _____ ⇨ *Overhead Manipulative Resources*: counters, integer mat

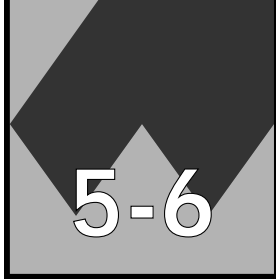
ASSESS

- _____ *TWE*, p. 206
- _____ ⇨ *Hands-On Lab Masters*, p. 48

Class Activity (p. 206)
_____ All: 1-7
_____ Alternate Assignment: _____

- _____ Math Journal, *TWE*, p. 206

KEY	SE = Student Edition	TWE = Teacher's Wraparound Edition	⇨ = Other Program Components
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Lesson Planning Guide (pp. 207-209)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

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

NCTM Standards: 1, 2, 6-10
South Carolina Math Curriculum Standards
Grade 7: NO II.A.1., NO III.A.1., NO III.B.1., NO III.B.2., ALG II.D.2

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 207
- _____ ⇨ Transparency 5-6A
- _____ Motivating the Lesson, Hands-On-Activity, *TWE*, p. 207

2 TEACH

- _____ ⇨ Transparency 5-6B
- _____ Mastering Basic Skills, *TWE*, p. 207
- _____ In-Class Examples, *TWE*, p. 208
- _____ ⇨ *Study Guide Masters*, p. 39
- _____ Reteaching the Lesson, *TWE*, p. 208
- _____ Error Analysis, *TWE*, p. 208
- _____ ⇨ *CD-ROM Program*, Resource Lesson 5-6, Interactive Lesson 5-6

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, pp. 208-209

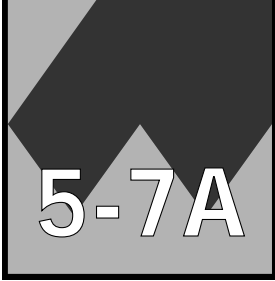
Homework Assignments (p. 209)	
_____ Core: 15-37 odd, 39-44	_____ Enriched: 14-36 even, 37-44
_____ Alternate Assignment: _____	

- _____ Extra Practice, *SE*, p. 582
- _____ ⇨ *Practice Masters*, p. 39
- _____ ⇨ *Science and Mathematics Lab Manual*, pp. 89-92
- _____ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 43

4 ASSESS

- _____ Closing Activity, Writing, *TWE*, p. 209
- _____ ⇨ *Assessment and Evaluation Masters*, Quiz C, p. 128
- _____ Extending the Lesson, *TWE*, p. 209
- _____ ⇨ *Enrichment Masters*, p. 39

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Lesson Planning Guide (pp. 210-211)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Solve problems by using the look-for-a-pattern strategy.
- _____ State/local objectives: _____

NCTM Standards: 1, 2, 6-10
South Carolina Math Curriculum Standards Grade 7: ALG I.A.1.

1 FOCUS

- _____ Getting Started, *TWE*, p. 210

2 TEACH

- _____ In-Class Examples, *TWE*, p. 210
- _____ Reteaching the Lesson, *TWE*, p. 210

3 PRACTICE/APPLY

- _____ Check for Understanding, *TWE*, p. 211

Homework Assignments (p. 211)

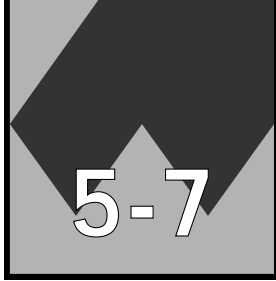
- _____ All: 4-12
- _____ Alternate Assignment: _____

- _____ Extra Practice, *SE*, p. 582
- _____ Mixed Problem Solving, *SE*, pp. 605-606

4 ASSESS

- _____ Closing Activity, Writing, *TWE*, p. 211
- _____ Extending the Lesson, *TWE*, p. 211

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



Lesson Planning Guide (pp. 212-214)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

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

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

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 212
- _____ ⇨ Transparency 5-7A
- _____ Motivating the Lesson, Hands-On-Activity, *TWE*, p. 212

2 TEACH

- _____ ⇨ Transparency 5-7B
- _____ Mastering Basic Skills, *TWE*, p. 213
- _____ In-Class Examples, *TWE*, p. 213
- _____ ⇨ *Study Guide Masters*, p. 40
- _____ Reteaching the Lesson, *TWE*, p. 213
- _____ ⇨ *CD-ROM Program*, Resource Lesson 5-7

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 213

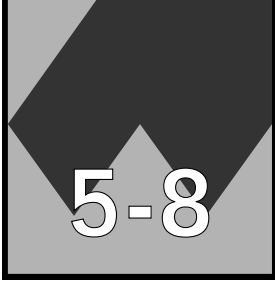
Homework Assignments (pp. 213-214)	
_____ Core: 13-37 odd, 39-44	_____ Enriched: 14-36 even, 37-44
_____ Alternate Assignment: _____	

- _____ Extra Practice, *SE*, p. 582
- _____ ⇨ *Practice Masters*, p. 40
- _____ ⇨ *Technology Masters*, Graphing Calculator Activity, p. 36
- _____ ⇨ *Diversity Masters*, p. 18
- _____ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 44

4 ASSESS

- _____ Closing Activity, Modeling, *TWE*, p. 214
- _____ Extending the Lesson, *TWE*, p. 214
- _____ ⇨ *Enrichment Masters*, p. 40

KEY <i>SE</i> = Student Edition <i>TWE</i> = Teacher's Wraparound Edition ⇨ = Other Program Components
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Lesson Planning Guide (pp. 215-217)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Graph transformations on a coordinate plane.
- _____ State/local objectives: _____

NCTM Standards: 1-3, 6-10
South Carolina Math Curriculum Standards Grade 7: GEO II.A.1., GEO II.B.1., GEO III.A.1.

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 215
- _____ ⇨ Transparency 5-8A
- _____ Motivating the Lesson, Communication, *TWE*, p. 215

2 TEACH

- _____ ⇨ Transparency 5-8B
- _____ Reading Mathematics, *TWE*, p. 215
- _____ In-Class Examples, *TWE*, p. 216
- _____ ⇨ *Study Guide Masters*, p. 41
- _____ Reteaching the Lesson, *TWE*, p. 216
- _____ Family Activity, *SE*, p. 217
- _____ ⇨ *CD-ROM Program*, Resource Lesson 5-8, Interactive Lesson 5-8

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 216

Homework Assignments (p. 217)	
_____ Core: 9-17 odd, 19-22	_____ Enriched: 8-16 even, 17-22
_____ Alternate Assignment: _____	

- _____ Extra Practice, *SE*, p. 583
- _____ ⇨ *Practice Masters*, p. 41
- _____ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 45

4 ASSESS

- _____ Closing Activity, Speaking, *TWE*, p. 217
- _____ ⇨ *Assessment and Evaluation Masters*, Quiz D, p. 128
- _____ Extending the Lesson, *TWE*, p. 217
- _____ ⇨ *Enrichment Masters*, p. 41

KEY	SE = Student Edition	TWE = Teacher's Wraparound Edition	⇨ = Other Program Components
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Review and Assessment (pp. 218-223)



Teacher's Name _____ Dates _____

Grade _____ Class _____
Review M Tu W Th F
Testing M Tu W Th F



- _____ Study Guide and Assessment, *SE*, pp. 218-221
- _____ Standardized Test Practice, *SE*, pp. 222-223
- _____ Chapter Test, *SE*, p. 611

⇨ **Assessment and Evaluation Masters (pp. 113-131)**

Multiple-Choice Tests

Free-Response Tests

- | | |
|---|---------------------------------------|
| _____ Form 1A, 1B, or 1C, pp. 113-118 | _____ Form 2A, 2B, or 2C, pp. 119-124 |
| _____ Standardized Test Practice, pp. 129-130 | _____ Performance Assessment, p. 125 |
| | _____ Cumulative Review, p. 131 |

- _____ ⇨ *MindJogger Videoquizzes*, Chapter 5
- _____ ⇨ *Test and Review Software*
- _____ ⇨ *CD-ROM Assessment Game*
- _____ ⇨ *State Test Preparation CD-ROM*
- _____ ⇨  *South Carolina Parent and Student Study Guide Workbook*, p. 46
- _____ ⇨  *South Carolina PACT Workbook and Test Preparation, Grade 7*

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