

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.

Day (Standard)	Day (Honors)	Lesson	Title
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>

5

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.

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)

5-1

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.

NCTM Standards:

1, 6-10

Georgia Quality Core Curriculum:

Grade 7: 1, 2, 25, 35

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

_____ School to Career Activity, *SE*, p. 187

_____ ⇨ *Georgia 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

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Lesson Planning Guide (pp. 188-190)

5-2

Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

_____ Compare and order integers.

NCTM Standards:

1, 6-10

Georgia Quality Core Curriculum:

Grade 7: 1, 25, 30, 43

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

_____ ⇨ *Georgia 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

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Lesson Planning Guide (pp. 191-194)

5-3

Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

_____ Graph points on a coordinate plane.

NCTM Standards:

1, 3, 6-10

Georgia Quality Core Curriculum:

Grade 7: 1, 22

1 FOCUS

_____ 5-Minute Check, *TWE*, p. 191

_____ ⇨ Transparency 5-3A

_____ Motivating the Lesson, Communication, *TWE*, p. 191

_____ Multiple Learning Styles, Verbal/Linguistic, *TWE*, p. 191

2 TEACH

_____ ⇨ Transparency 5-3B

_____ Using Applications, *TWE*, p. 192

_____ In-Class Examples, *TWE*, p. 192

_____ ⇨ *Study Guide Masters*, p. 36

_____ Let the Games Begin, *SE*, p. 192

_____ Reteaching the Lesson, *TWE*, p. 192

_____ Error Analysis, *TWE*, p. 192

_____ ⇨ *CD-ROM Program*, Resource Lesson 5-3, Extended Activity 5-3

3 PRACTICE/APPLY

_____ Check for Understanding, *SE*, p. 193

Homework Assignments (pp. 193-194)

_____ Core: 11-31 odd, 34-38	_____ Enriched: 12-20 even, 31, 32, 34-38
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_____ Optional: 33 (Working on the Chapter Project)

_____ Alternate Assignment: _____

_____ Extra Practice, *SE*, p. 581

_____ ⇨ *Practice Masters*, p. 36

_____ ⇨ *Hands-On Lab Masters*, p. 76

_____ ⇨ *Georgia Parent and Student Study Guide Workbook*, p. 40

4 ASSESS

_____ Closing Activity, Modeling, *TWE*, p. 194

_____ Extending the Lesson, *TWE*, p. 194

_____ ⇨ *Enrichment Masters*, p. 36

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Lesson Planning Guide (p. 195)

5-3B

Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

_____ Graph points on a graphing calculator.

NCTM Standards:
1, 3, 6-8
Georgia Quality Core Curriculum:
Grade 7: 1, 3, 22

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)

5-4A

Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

_____ Add integers by using models.

NCTM Standards:

1, 6-10

Georgia Quality Core Curriculum:

Grade 7: 1, 2, 15

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)

5-4

Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

_____ Add integers.

NCTM Standards:

1, 2, 6-10

Georgia Quality Core Curriculum:

Grade 7: 1, 6, 7, 12, 15

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

_____ ⇨ *Georgia 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

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Lesson Planning Guide (p. 201)

5-5A

Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

_____ Subtract integers by using models.

NCTM Standards:
1, 6-10
Georgia Quality Core Curriculum:
Grade 7: 1, 2, 15

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)

5-5

Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

_____ Subtract integers.

NCTM Standards:

1, 2, 6-10

Georgia Quality Core Curriculum:**Grade 7: 1, 11, 12, 13, 15, 38**

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

Lesson Planning Guide (p. 206)

5-6A

Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

_____ Multiply integers by using models.

NCTM Standards:

1, 6-10

Georgia Quality Core Curriculum:

Grade 7: 1, 2, 15

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

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Lesson Planning Guide (pp. 207-209)

5-6

Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

_____ Multiply integers.

NCTM Standards:

1, 2, 6-10

Georgia Quality Core Curriculum:

Grade 7: 1, 7, 12, 15

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

_____ ⇨ *Georgia 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)

5-7A

Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

_____ Solve problems by using the look-for-a-pattern strategy.

NCTM Standards:
1, 2, 6-10
Georgia Quality Core Curriculum:
Grade 7: 1, 38, 43

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

<i>Homework Assignments (p. 211)</i>
_____ 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

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Lesson Planning Guide (pp. 212-214)

5-7

Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

_____ Divide integers.

NCTM Standards:

1, 2, 5-10

Georgia Quality Core Curriculum:

Grade 7: 1, 6, 7, 11, 13, 15, 38

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

_____ ⇨ *Georgia 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

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Lesson Planning Guide (pp. 215-217)

5-8

Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

_____ Graph transformations on a coordinate plane.

NCTM Standards:

1-3, 6-10

Georgia Quality Core Curriculum:

Grade 7: 1, 20, 21, 22, 43

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

_____ ⇨ *Georgia 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

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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

- _____ Form 1A, 1B, or 1C, pp. 113-118
- _____ Standardized Test Practice, pp. 129-130

Free-Response Tests

- _____ Form 2A, 2B, or 2C, pp. 119-124
- _____ 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*
- _____ ⇔ *Georgia Parent and Student Study Guide Workbook*, p. 46
- _____ ⇔ *Georgia Stanford 9 Practice and Sample Test Workbook*

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