



12 Algebra: Exploring Equations

Chapter Pacing Guide

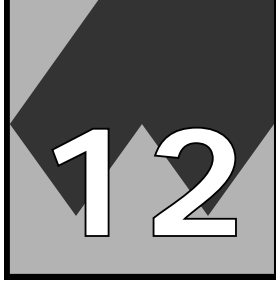
Please note that this pacing guide is based upon completing the entire text in 165 classes, approximately 50 minutes each. More time can be allotted for this chapter if you do not plan to teach the entire text.

<i>Day (Standard)</i>	<i>Day (Honors)</i>	<i>Lesson</i>	<i>Title</i>
1	1	*Chapter Project	Theme: Collections Collect a Fortune
2	2	12-1	Solving Addition Equations
3	3	12-2	Solving Subtraction Equations
4	4	12-3	Solving Multiplication and Division Equations
5	5	12-4	Solving Two-Step Equations
6	6	12-4B	<small>THINKING LAB</small> Problem Solving Use an Equation
7 & 8		*12-5A	<small>HANDS-ON LAB</small> Cooperative Learning Function Machines
	7 & 8	12-5	Functions
9	9	12-6	Graphing Functions
10	10	Review: Study Guide and Assessment	
11	11	Assessment: Chapter Test	

* *Optional*

Chapter Resources

<p>Meeting Individual Needs <i>Investigations for the Special Education Student</i>, How Does Your Garden Grow?, pp. 39-42 <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 15 and 16</p>	<p>Applications <i>Family Letters and Activities</i>, pp. 23-24 <i>Spanish Family Letters and Activities</i>, pp. 23-24</p>



Chapter Project (pp. 474-475)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Research the history and value of collectibles.
- _____ Prepare a display of the values of their collection.
- _____ State/local objectives: _____

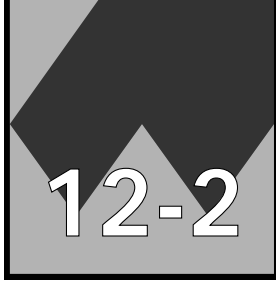
Theme: Collections

- _____ Chapter Project, *SE*, p. 475
- _____ Chapter 12 Notes, *TWE*, p. 474
- _____ Question of the Day, *TWE*, p. 474
- _____ ⇨ *Investigations and Projects Masters*, pp. 61-64

Homework Assignments

- _____ p. 478, Working on the Chapter Project, Exercise 32
- _____ p. 487, Working on the Chapter Project, Exercise 33
- _____ p. 503, Working on the Chapter Project, Exercise 27
- _____ p. 507, Completing the Chapter Project, Alternative Assessment

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



Lesson Planning Guide (pp. 480-483)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Solve subtraction equations by using models.
- _____ State/local objectives: _____

NCTM Standards: 1, 2, 6-10
South Carolina Math Curriculum Standards
Grade 6: ALG II.B.1.

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 480
- _____ ⇨ Transparency 12-2A
- _____ Motivating the Lesson, Communication, *TWE*, p. 480
- _____ Multiple Learning Styles, Auditory/Musical, *TWE*, p. 480

2 TEACH

- _____ ⇨ Transparency 12-2B
- _____ Reading Mathematics, *TWE*, p. 481
- _____ In-Class Examples, *TWE*, p. 481
- _____ ⇨ *Study Guide Masters*, p. 85
- _____ Reteaching the Lesson, *TWE*, p. 482
- _____ Error Analysis, *TWE*, p. 482
- _____ ⇨ *CD-ROM Program*, Resource Lesson 12-2, Interactive Lesson 12-2

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, pp. 482-483

Homework Assignments (p. 483)

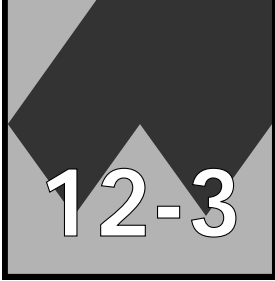
- _____ Core: 11-29 odd, 30-34
- _____ Enriched: 12-26 even, 28-34
- _____ Alternate Assignment: _____

- _____ Extra Practice, *SE*, p. 588
- _____ ⇨ *Practice Masters*, p. 85
- _____ ⇨ *Classroom Games*, pp. 33-35
- _____ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 96

4 ASSESS

- _____ Closing Activity, Speaking, *TWE*, p. 483
- _____ ⇨ *Assessment and Evaluation Masters*, Quiz A, p. 323
- _____ Extending the Lesson, *TWE*, p. 483
- _____ ⇨ *Enrichment Masters*, p. 85

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Lesson Planning Guide (pp. 484-487)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Solve multiplication and division equations using models.
- _____ State/local objectives: _____

NCTM Standards: 1-4, 6-10
South Carolina Math Curriculum Standards
Grade 6: ALG II.B.1.

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 484
- _____ ⇨ Transparency 12-3A
- _____ Motivating the Lesson, Hands-On-Activity, *TWE*, p. 484

2 TEACH


- _____ ⇨ Transparency 12-3B
- _____ Thinking Algebraically, *TWE*, p. 485
- _____ In-Class Examples, *TWE*, p. 485
- _____ ⇨ *Study Guide Masters*, p. 86
- _____ Reteaching the Lesson, *TWE*, p. 486
- _____ Error Analysis, *TWE*, p. 486
- _____ ⇨ *CD-ROM Program*, Resource Lesson 12-3, Interactive Lesson 12-3

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 486

Homework Assignments (pp. 486-487)

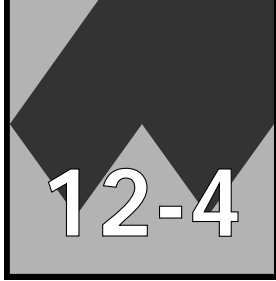
- _____ Core: 11-31 odd, 34-38 _____ Enriched: 12-30 even, 31, 32, 34-38
- _____ Optional: 33 (Working on the Chapter Project)
- _____ Alternate Assignment: _____

- _____ Extra Practice, *SE*, p. 589
- _____ ⇨ *Practice Masters*, p. 86
- _____ ⇨ *School to Career Masters*, p. 12
- _____ Family Activity, *SE*, p. 486
- _____ ⇨  *South Carolina Parent and Student Study Guide Workbook*, p. 97

4 ASSESS

- _____ Closing Activity, Writing, *TWE*, p. 487
- _____ Extending the Lesson, *TWE*, p. 487
- _____ ⇨ *Enrichment Masters*, p. 86
- _____ Mid-Chapter Self Test, *SE*, p. 487
- _____ ⇨ *Assessment and Evaluation Masters*, Mid-Chapter Test, p. 322
- _____ ⇨ *Assessment and Evaluation Masters*, Quiz B, p. 323

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Lesson Planning Guide (pp. 488-491)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Solve two-step equations using models.
- _____ State/local objectives: _____

NCTM Standards: 1, 2, 6-8,10
South Carolina Math Curriculum Standards
Grade 6: ALG I.A.1., ALG II.B.1., GEO IVE.1.

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 488
- _____ ⇨ Transparency 12-4A
- _____ Motivating the Lesson, Communication, *TWE*, p. 488
- _____ Multiple Learning Styles, Logical, *TWE*, p. 488

2 TEACH

- _____ ⇨ Transparency 12-4B
- _____ Using Discussion, *TWE*, p. 489
- _____ In-Class Examples, *TWE*, p. 489
- _____ ⇨ *Study Guide Masters*, p. 87
- _____ Reteaching the Lesson, *TWE*, p. 490
- _____ ⇨ *CD-ROM Program*, Resource Lesson 12-4, Interactive Lesson 12-4

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 490

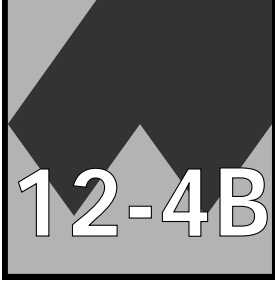
Homework Assignments (pp. 490-491)	
_____ Core: 7-19 odd, 20-23	_____ Enriched: 8-16 even, 18-23
_____ Alternate Assignment: _____	

- _____ Extra Practice, *SE*, p. 589
- _____ ⇨ *Practice Masters*, p. 87
- _____ ⇨ *Diversity Masters*, p. 12
- _____ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 98

4 ASSESS

- _____ Let the Games Begin, *SE*, p. 491
- _____ Closing Activity, Writing, *TWE*, p. 491
- _____ Extending the Lesson, *TWE*, p. 491
- _____ ⇨ *Enrichment Masters*, p. 87

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Lesson Planning Guide (pp. 492-493)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Solve problems by using an equation.
- _____ State/local objectives: _____

NCTM Standards: 1, 2, 6-9
South Carolina Math Curriculum Standards Grade 6: GEO IV.E.1., MEA I.C.2., MEA II.A.1.

1 FOCUS

- _____ Getting Started, *TWE*, p. 492

2 TEACH

- _____ In-Class Examples, *TWE*, p. 492
- _____ Reteaching the Lesson, *TWE*, p. 492

3 PRACTICE/APPLY

- _____ Check for Understanding, *TWE*, p. 493

Homework Assignments (p. 493)

- _____ All 5-16
- _____ Alternate Assignment: _____

- _____ Extra Practice, *SE*, p. 589
- _____ Mixed Problem Solving, *SE*, pp. 593-594

4 ASSESS

- _____ Closing Activity, Writing, *TWE*, p. 493
- _____ Extending the Lesson, *TWE*, p. 493

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12-5A

Lesson Planning Guide (pp. 494-495)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Find the input and output for a given function machine.
- _____ State/local objectives: _____

NCTM Standards:

1, 2, 6-8, 10

South Carolina Math Curriculum Standards

Grade 6: ALG III.A.1.

MANAGEMENT

- _____ Getting Started, *TWE*, p. 494

ASSESS

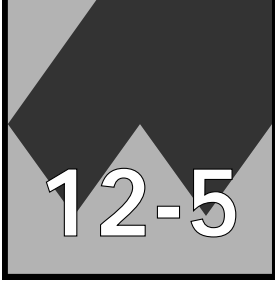
- _____ *TWE*, p. 495
- _____ ⇔ *Hands-On Lab Masters*, p. 66

Class Activity (pp. 494-495)

- _____ All: 1-8
- _____ Alternate Assignment: _____

- _____ Math Journal, *TWE*, p. 495

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Lesson Planning Guide (pp. 496-499)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Complete function tables.
- _____ State/local objectives: _____

NCTM Standards: 1, 2, 6-10
South Carolina Math Curriculum Standards
Grade 6: ALG III.A.1., GEO IV.E.1., MEA I.C.2., MEA II.A.1.

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 496
- _____ ⇨ Transparency 12-5A
- _____ Motivating the Lesson, Hands-On-Activity, *TWE*, p. 496

2 TEACH

- _____ ⇨ Transparency 12-5B
- _____ Reading Mathematics, *TWE*, p. 497
- _____ In-Class Examples, *TWE*, p. 497
- _____ ⇨ *Study Guide Masters*, p. 88
- _____ Reteaching the Lesson, *TWE*, p. 497
- _____ ⇨ *CD-ROM Program*, Resource Lesson 12-5, Interactive Lesson 12-5
- _____ ⇨ *Interactive Mathematics Tools Software*

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, pp. 497-498

Homework Assignments (pp. 498-499)

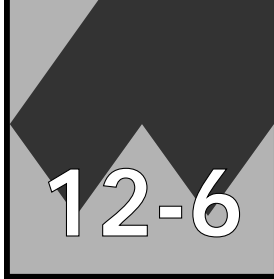
- | | |
|-----------------------------------|-----------------------------------|
| _____ Core: 11-25 odd, 27-30 | _____ Enriched: 10-24 even, 25-30 |
| _____ Alternate Assignment: _____ | |

- _____ Extra Practice, *SE*, p. 590
- _____ ⇨ *Practice Masters*, p. 88
- _____ ⇨ *Technology Masters*, Calculator Activity, p. 23
- _____ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 99

4 ASSESS

- _____ Closing Activity, Modeling, *TWE*, p. 499
- _____ ⇨ *Assessment and Evaluation Masters*, Quiz C, p. 324
- _____ Extending the Lesson, *TWE*, p. 499
- _____ ⇨ *Enrichment Masters*, p. 88

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Lesson Planning Guide (pp. 500-503)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Graph functions from function tables.
- _____ State/local objectives: _____

NCTM Standards: 1-3, 6-10
South Carolina Math Curriculum Standards
Grade 6: ALG III.A.1., GEO IV.E.1.

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 500
- _____ ⇨ Transparency 12-6A
- _____ Motivating the Lesson, Problem Solving, *TWE*, p. 500
- _____ Multiple Learning Styles, Visual/Spatial, *TWE*, p. 500

2 TEACH

- _____ ⇨ Transparency 12-6B
- _____ Using Discussion, *TWE*, p. 501
- _____ In-Class Examples, *TWE*, p. 501
- _____ ⇨ *Study Guide Masters*, p. 89
- _____ Reteaching the Lesson, *TWE*, p. 501
- _____ ⇨ *CD-ROM Program*, Resource Lesson 12-6, Interactive Lesson 12-6
- _____ ⇨ *Interactive Mathematics Tools Software*

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, pp. 501-502

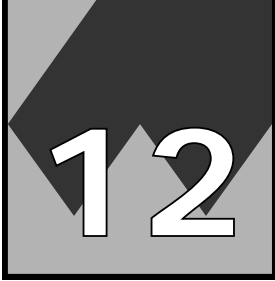
Homework Assignments (pp. 502-503)	
_____ Core: 11-25 odd, 28-32	_____ Enriched: 10-24 even, 25, 26, 28-32
_____ Optional: 27 (Working on the Chapter Project)	
_____ Alternate Assignment: _____	

- _____ Extra Practice, *SE*, p. 590
- _____ ⇨ *Practice Masters*, p. 89
- _____ ⇨ *Technology Masters*, Graphing Calculator Activity, p. 24
- _____ ⇨ *Science and Mathematics Lab Manual*, pp. 21-24
- _____ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 100

4 ASSESS

- _____ Closing Activity, Speaking, *TWE*, p. 503
- _____ ⇨ *Assessment and Evaluation Masters*, Quiz D, p. 324
- _____ Extending the Lesson, *TWE*, p. 503
- _____ ⇨ *Enrichment Masters*, p. 89

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Review and Assessment (pp. 504-509)



Teacher's Name _____ Dates _____

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



- _____ Study Guide and Assessment, *SE*, pp. 504-507
- _____ Standardized Test Practice, *SE*, pp. 508-509
- _____ Chapter Test, *SE*, p. 606

⇔ **Assessment and Evaluation Masters (pp. 309-327)**

Multiple-Choice Tests

Free-Response Tests

- | | |
|---|---------------------------------------|
| _____ Form 1A, 1B, or 1C, pp. 309-314 | _____ Form 2A, 2B, or 2C, pp. 315-320 |
| _____ Standardized Test Practice, pp. 325-326 | _____ Performance Assessment, p. 321 |
| | _____ Cumulative Review, p. 327 |

- _____ ⇔ *MindJogger Videoquizzes*, Chapter 12
- _____ ⇔ *Test and Review Software*
- _____ ⇔ *CD-ROM Assessment Game*
- _____ ⇔ *State Test Preparation CD-ROM*
- _____ ⇔  *South Carolina Parent and Student Study Guide Workbook*, p. 101
- _____ ⇔  *South Carolina PACT Workbook and Test Preparation, Grade 6*

Interdisciplinary Investigation, SE, pp. 510-511

- _____ ⇔ *Interdisciplinary Investigation, TWE*, pp. 510-511
- _____ ⇔ *Investigations and Projects Masters*, pp. 13-16

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