

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.

Day (Standard)	Day (Honors)	Lesson	Title
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.

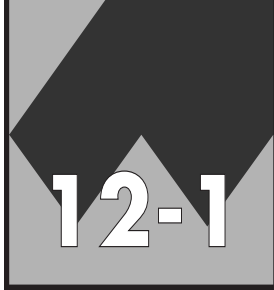
Theme: Collections

- _____ 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. 476-479)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

_____ Solve addition equations by using models.

NCTM Standards: 1, 2, 6-10
Georgia Quality Core Curriculum: Grade 6: 1, 2, 5, 7, 8, 34, 41, 47

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 476
- _____ ⇨ Transparency 12-1A
- _____ Motivating the Lesson, Problem Solving, *TWE*, p. 476
- _____ Cross-Curriculum Cue, *TWE*, p. 476

2 TEACH

- _____ ⇨ Transparency 12-1B
- _____ Using Manipulatives, *TWE*, p. 477
- _____ In-Class Examples, *TWE*, p. 477
- _____ ⇨ *Study Guide Masters*, p. 84
- _____ Reteaching the Lesson, *TWE*, p. 477
- _____ Error Analysis, *TWE*, p. 477
- _____ ⇨ *CD-ROM Program*, Resource Lesson 12-1

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, pp. 477-478

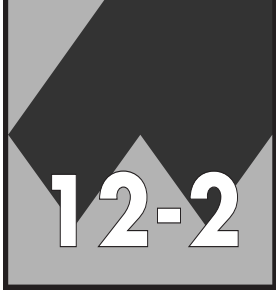
Homework Assignments (pp. 478-479)	
_____ Core: 11-31 odd, 33-37	_____ Enriched: 10-30 even, 31, 33-37
_____ Optional: 32 (Working on the Chapter Project)	
_____ Alternate Assignment: _____	

- _____ Extra Practice, *SE*, p. 588
- _____ ⇨ *Practice Masters*, p. 84
- _____ ⇨ *Hands-On Lab Masters*, p. 80
- _____ Math in the Media, *SE*, p. 479
- _____ ⇨ *Georgia Parent and Student Study Guide Workbook*, p. 95

4 ASSESS

- _____ Closing Activity, Modeling, *TWE*, p. 479
- _____ Extending the Lesson, *TWE*, p. 479
- _____ ⇨ *Enrichment Masters*, p. 84

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Lesson Planning Guide (pp. 480-483)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

_____ Solve subtraction equations by using models.

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: _____

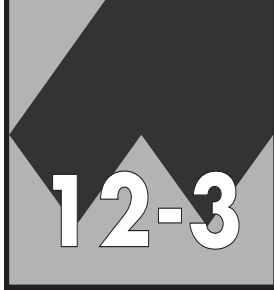
- _____ Extra Practice, *SE*, p. 588
- _____ ⇨ *Practice Masters*, p. 85
- _____ ⇨ *Classroom Games*, pp. 33-35
- _____ ⇨  *Georgia Parent and Student Study Guide Workbook*, p. 96

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

NCTM Standards: 1, 2, 6-10
Georgia Quality Core Curriculum: Grade 6: 1, 2, 5, 7, 8, 34, 41, 47

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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.

NCTM Standards: 1-4, 6-10
Georgia Quality Core Curriculum: Grade 6: 1, 5, 7, 8, 34, 41, 47

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
- _____ ⇨  *Georgia 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.

NCTM Standards: 1, 2, 6-8, 10
Georgia Quality Core Curriculum: Grade 6: 1, 5, 8, 34, 41, 47

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

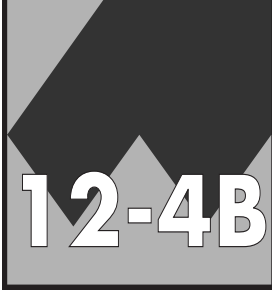
Homework Assignments (pp. 490-491)	
_____ Core: 7-19 odd, 20-23	_____ Enriched: 8-16 even, 18-23
_____ Alternate Assignment: _____	

- _____ Extra Practice, *SE*, p. 589
- _____ ⇨ *Practice Masters*, p. 87
- _____ ⇨ *Diversity Masters*, p. 12
- _____ ⇨  *Georgia 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.

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

NCTM Standards: 1, 2, 6-9
Georgia Quality Core Curriculum: Grade 6: 1, 2, 5, 8, 34, 41, 46, 47

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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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.

MANAGEMENT

_____ Getting Started, *TWE*, p. 494

ASSESS

_____ *TWE*, p. 495

_____ ⇔ *Hands-On Lab Masters*, p. 66

NCTM Standards: 1, 2, 6-8, 10
Georgia Quality Core Curriculum: Grade 6: 1, 2, 41

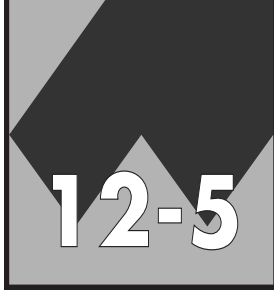
Class Activity (pp. 494-495)

_____ 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.

NCTM Standards: 1, 2, 6-10
Georgia Quality Core Curriculum: Grade 6: 1, 41, 47

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
- _____ ⇨ *Georgia 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.

NCTM Standards: 1-3, 6-10
Georgia Quality Core Curriculum: Grade 6: 1, 2, 41, 48

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

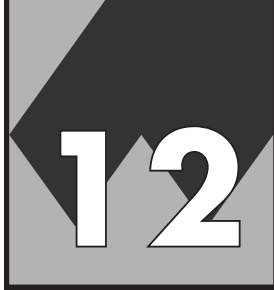
Homework Assignments (pp. 502-503)	
_____ Core: 11-25 odd, 28-32	_____ Enriched: 10-24 even, 25, 26, 28-32
_____ Optional: 27 (Working on the Chapter Project)	
_____ Alternate Assignment: _____	

- _____ Extra Practice, *SE*, p. 590
- _____ ⇨ *Practice Masters*, p. 89
- _____ ⇨ *Technology Masters*, Graphing Calculator Activity, p. 24
- _____ ⇨ *Science and Mathematics Lab Manual*, pp. 21-24
- _____ ⇨ *Georgia 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

- _____ Form 1A, 1B, or 1C, pp. 309-314
- _____ Standardized Test Practice, pp. 325-326

Free-Response Tests

- _____ Form 2A, 2B, or 2C, pp. 315-320
- _____ 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*
- _____ ⇔  *Georgia Parent and Student Study Guide Workbook*, p. 101
- _____ ⇔  *Georgia Stanford 9 Practice and Sample Test Workbook*

Interdisciplinary Investigation, SE, pp. 510-511

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

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