

12 Algebra: Exploring Equations



Chapter Pacing Guide

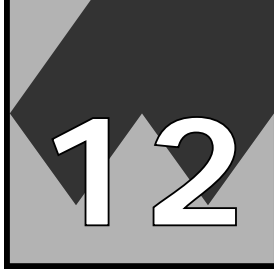
Please note that this pacing guide is based upon completing the entire text in 165 classes, approximately 50 minutes each. More time can be allotted for this chapter if you do not plan to teach the entire text.

<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.

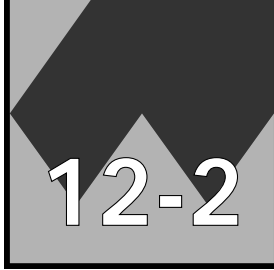
Theme: Collections

- _____ 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.

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: _____

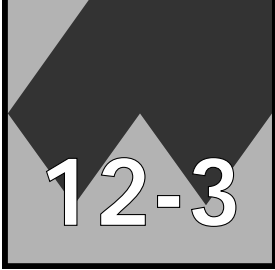
- _____ Extra Practice, *SE*, p. 588
- _____ ⇨ *Practice Masters*, p. 85
- _____ ⇨ *Classroom Games*, pp. 33-35

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

The California Mathematics Academic Content Standards	
Grade 5:	AF1.1, AF1.2, MR2.3, MR2.4, MR2.6, MR3.1
🔑 Key Lesson	
Grade 6:	NS2.3, AF1.1, AF3.1, AF3.2, MG1.2, SDP2.3, MR2.3
🔑 Key Lesson	

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



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.

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

The California Mathematics Academic Content Standards

Grade 5: AF1.1, AF1.2, MR2.3, MR2.4, MR2.6, MR3.1

🔑 **Key Lesson**

Grade 6: NS1.3, NS2.1, NS2.3, AF1.1

🔑 **Key Lesson**

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

4 ASSESS

_____ Closing Activity, Writing, *TWE*, p. 487

_____ Extending the Lesson, *TWE*, p. 487

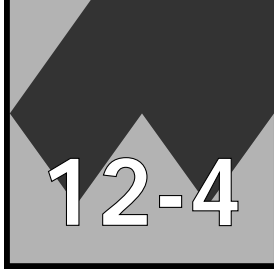
_____ ⇨ *Enrichment Masters*, p. 86

_____ 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.

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

The California Mathematics Academic Content Standards	
Grade 5:	AF1.1, AF1.2, MR2.3, MR2.4, MR2.6, MR3.1
	🔑 Key Lesson
Grade 6:	NS1.1, NS2.3, AF1.1, MR2.2
	🔑 Key Lesson

Homework Assignments (pp. 490-491)

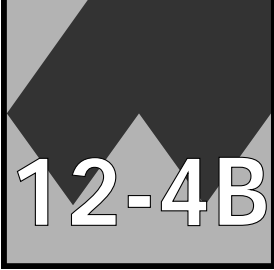
- _____ Core: 7-19 odd, 20-23 _____ Enriched: 8-16 even, 18-23
 _____ Alternate Assignment: _____

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

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

The California Mathematics Academic Content Standards

Grade 5: AF1.1, AF1.2,
MR2.3, MR2.4,
MR3.2

🔑 Key Lesson

Grade 6: AF1.1, AF3.1, AF3.2

🔑 Key Lesson

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.

MANAGEMENT

_____ Getting Started, *TWE*, p. 494

ASSESS

_____ *TWE*, p. 495

_____ ⇄ *Hands-On Lab Masters*, p. 66

**The California Mathematics
Academic Content Standards**

Grade 5: AF1.5, MR2.3,
MR2.4

🔑 **Key Lesson**

Grade 6: AF1.2

Basic Lesson

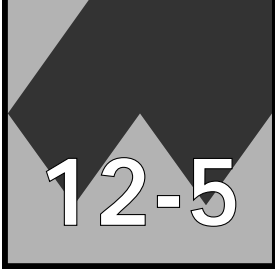
Class Activity (pp. 494-495)

_____ 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.

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

The California Mathematics Academic Content Standards

Grade 5: AF1.5, MR2.3, MR2.4

🔑 Key Lesson

Grade 6: NS2.3, AF1.2, AF3.1, AF3.2, SDP2.3, MR2.2

🔑 Key Lesson

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

4 ASSESS

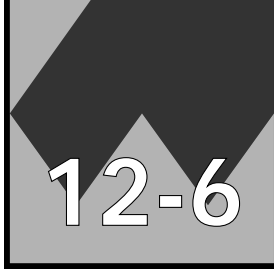
_____ Closing Activity, Modeling, *TWE*, p. 499

_____ ⇨ *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.

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

The California Mathematics Academic Content Standards	
Grade 5:	AF1.1, AF1.5, MR2.3, MR2.4
🔑 Key Lesson	
Grade 6:	NS1.3, NS2.3, AF1.1, AF1.2, AF2.3, AF3.1, AF3.2, MG1.2, SDP2.3, MR2.2, MR2.3
🔑 Key Lesson	

Homework Assignments (pp. 502-503)

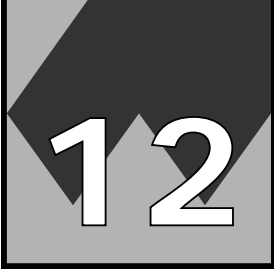
- _____ Core: 11-25 odd, 28-32 _____ Enriched: 10-24 even, 25, 26, 28-32
- _____ Optional: 27 (Working on the Chapter Project)
- _____ Alternate Assignment: _____

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

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*
- _____ ⇔  *California Framework Practice and Sample Test Workbook*, Grade 5
- _____ ⇔  *California Framework Practice Transparencies*, Grade 5
- _____ ⇔  *California Framework Practice and Sample Test Workbook*, Grade 6
- _____ ⇔  *California Framework Practice Transparencies*, 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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