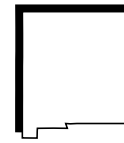


# 12 Algebra: Exploring Equations



## Chapter Pacing Guide

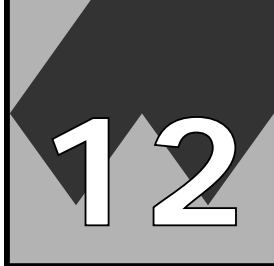
Please note that this pacing guide is based upon completing the entire text in 165 classes, approximately 50 minutes each. More time can be allotted for this chapter if you do not plan to teach the entire text.

<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	

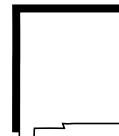
\* *Optional*

## Chapter Resources

<p><b>Meeting Individual Needs</b>  <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><b>Technology</b>  <i>Electronic Teacher's Classroom Resources (ETCR)</i>  <a href="http://www.glencoe.com/sec/math/mac/mathnet">www.glencoe.com/sec/math/mac/mathnet</a></p>
<p><b>Interactive Mathematics: Activities and Investigations</b>            Units 15 and 16</p>	<p><b>Applications</b>  <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.

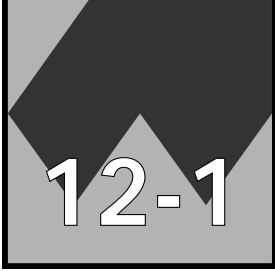
## Theme: Collections

- \_\_\_\_\_ 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:

1-9

### New Mexico Mathematics Performance Standards

Grades 5-8:

13-A-2

## 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)

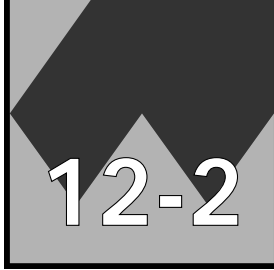
- \_\_\_\_\_ Core: 11-31 odd, 33-37 \_\_\_\_\_ Enriched: 10-30 even, 31, 33-37
- \_\_\_\_\_ Optional: 32 (Working on the Chapter Project)
- \_\_\_\_\_ Alternate Assignment: \_\_\_\_\_

- \_\_\_\_\_ Extra Practice, *SE*, p. 588
- \_\_\_\_\_ ⇨ *Practice Masters*, p. 84
- \_\_\_\_\_ ⇨ *Hands-On Lab Masters*, p. 80
- \_\_\_\_\_ Math in the Media, *SE*, p. 479

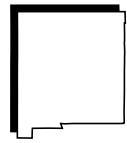
## 4 ASSESS

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

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.

<b>NCTM Standards:</b> 1-9
<b>New Mexico Mathematics Performance Standards Grades 5-8:</b> 4-B-2, 13-A-2

## 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

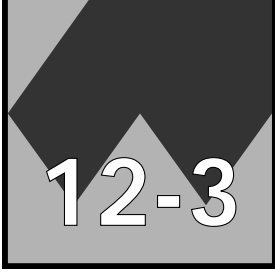
<b>Homework Assignments (p. 483)</b>	
_____ Core: 11-29 odd, 30-34	_____ Enriched: 12-26 even, 28-34
_____ Alternate Assignment: _____	

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

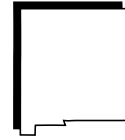
## 4 ASSESS

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

<b>KEY</b>	<i>SE</i> = Student Edition	<i>TWE</i> = Teacher's Wraparound Edition	⇨ = Other Program Components
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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:

1-7, 9, 12, 13

### New Mexico Mathematics Performance Standards

Grades 5-8:

13-A-2

## 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

## 4 ASSESS

\_\_\_\_\_ Closing Activity, Writing, *TWE*, p. 487

\_\_\_\_\_ Extending the Lesson, *TWE*, p. 487

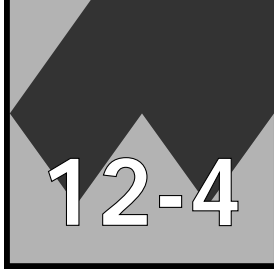
\_\_\_\_\_ ⇨ *Enrichment Masters*, p. 86

\_\_\_\_\_ Mid-Chapter Self Test, *SE*, p. 487

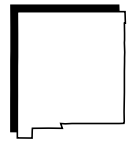
\_\_\_\_\_ ⇨ *Assessment and Evaluation Masters*, Mid-Chapter Test, p. 322

\_\_\_\_\_ ⇨ *Assessment and Evaluation Masters*, Quiz B, p. 323

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



# Lesson Planning Guide (pp. 488-491)



Teacher's Name \_\_\_\_\_ Dates \_\_\_\_\_

Grade \_\_\_\_\_ Class \_\_\_\_\_ M Tu W Th F

## Objectives

\_\_\_\_\_ Solve two-step equations using models.

<b>NCTM Standards:</b> 1-3, 5-7, 9
<b>New Mexico Mathematics Performance Standards Grades 5-8:</b> 13-A-2

## 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

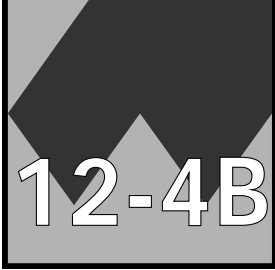
<b>Homework Assignments (pp. 490-491)</b>	
_____ Core: 7-19 odd, 20-23	_____ Enriched: 8-16 even, 18-23
_____ Alternate Assignment: _____	

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

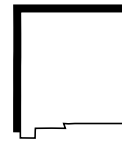
## 4 ASSESS

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

<b>KEY</b>	<i>SE</i> = Student Edition	<i>TWE</i> = Teacher's Wraparound Edition	⇨ = Other Program Components
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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

<b>NCTM Standards:</b> 1-7, 9
<b>New Mexico Mathematics Performance Standards Grades 5-8:</b> 13-A-2

### Homework Assignments (p. 493)

\_\_\_\_\_ All 5-16

\_\_\_\_\_ Alternate Assignment: \_\_\_\_\_

\_\_\_\_\_ Extra Practice, *SE*, p. 589

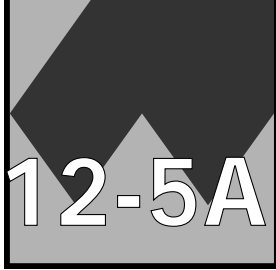
\_\_\_\_\_ Mixed Problem Solving, *SE*, pp. 593-594

### 4 ASSESS

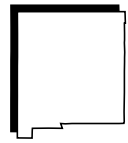
\_\_\_\_\_ Closing Activity, Writing, *TWE*, p. 493

\_\_\_\_\_ Extending the Lesson, *TWE*, p. 493

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



# 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

<b>NCTM Standards:</b> 1-3, 5-9
<b>New Mexico Mathematics          Performance Standards</b> <b>Grades 5-8:</b> 12-C-1, 13-C-1

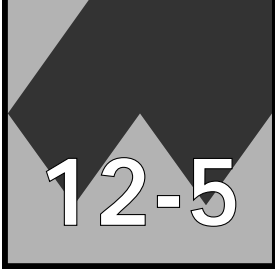
### Class Activity (pp. 494-495)

\_\_\_\_\_ All: 1-8

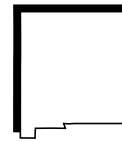
\_\_\_\_\_ Alternate Assignment: \_\_\_\_\_

\_\_\_\_\_ Math Journal, *TWE*, p. 495

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



# Lesson Planning Guide (pp. 496-499)



Teacher's Name \_\_\_\_\_ Dates \_\_\_\_\_

Grade \_\_\_\_\_ Class \_\_\_\_\_ M Tu W Th F

## Objectives

\_\_\_\_\_ Complete function tables.

<b>NCTM Standards:</b> 1-9
<b>New Mexico Mathematics Performance Standards Grades 5-8:</b> 2-E-1, 5-D-1, 12-C-1, 13-C-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)

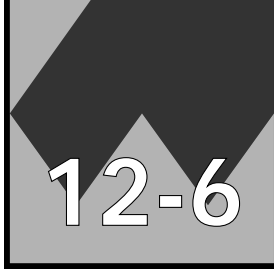
- \_\_\_\_\_ Core: 11-25 odd, 27-30                      \_\_\_\_\_ Enriched: 10-24 even, 25-30
- \_\_\_\_\_ Alternate Assignment: \_\_\_\_\_

- \_\_\_\_\_ Extra Practice, *SE*, p. 590
- \_\_\_\_\_ ⇨ *Practice Masters*, p. 88
- \_\_\_\_\_ ⇨ *Technology Masters*, Calculator Activity, p. 23

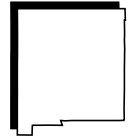
## 4 ASSESS

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

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



# Lesson Planning Guide (pp. 500-503)



Teacher's Name \_\_\_\_\_ Dates \_\_\_\_\_

Grade \_\_\_\_\_ Class \_\_\_\_\_ M Tu W Th F

## Objectives

\_\_\_\_\_ Graph functions from function tables.

<b>NCTM Standards:</b> 1-10, 12
<b>New Mexico Mathematics Performance Standards Grades 5-8:</b> 2-A-3, 5-D-1, 12-B-1, 12-C-1, 12-D-1, 13-C-1, 13-D-2

## 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

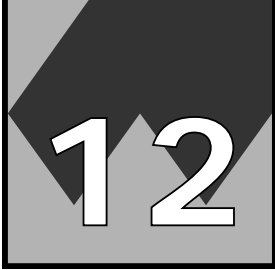
<b>Homework Assignments (pp. 502-503)</b>	
_____ Core: 11-25 odd, 28-32	_____ Enriched: 10-24 even, 25, 26, 28-32
_____ Optional: 27 (Working on the Chapter Project)	
_____ Alternate Assignment: _____	

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

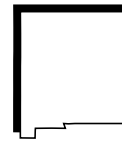
## 4 ASSESS

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

<b>KEY</b>	<i>SE</i> = Student Edition	<i>TWE</i> = Teacher's Wraparound Edition	⇨ = Other Program Components
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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*

## **Interdisciplinary Investigation, SE, pp. 510-511**

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

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