

# 13 Using Probability



## Chapter Pacing Guide

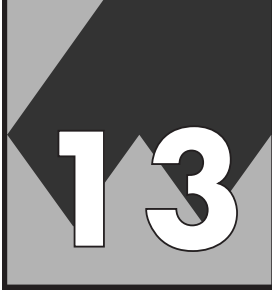
Please note that this pacing guide is based upon completing the entire text in 165 classes, approximately 50 minutes each. More time can be allotted for this chapter if you do not plan to teach the entire text.

<i>Day (Honors)</i>	<i>Lesson</i>	<i>Title</i>
1	*Chapter Project	Theme: Wildlife Animals Here Today, Gone Tomorrow
	*13-1A	<small>HANDS-ON LAB</small> Cooperative Learning Fair and Unfair Games
2	13-1	Theoretical Probability
3	13-2A	<small>THINKING LAB</small> Problem Solving Make a Table
4	13-2	Integration: Statistics Making Predictions Using Samples
5 & 6	13-3	Integration: Geometry Probability and Area
	*13-3B	<small>TECHNOLOGY LAB</small> Graphing Calculators Probability
7 & 8	13-4	Finding Outcomes
	*13-4B	<small>HANDS-ON LAB</small> Cooperative Learning Simulations
9	13-5	Probability of Independent Events
10	Review: Study Guide and Assessment	
11	Assessment: Chapter Test	

\* *Optional*

## Chapter Resources

<p><b>Meeting Individual Needs</b>  <i>Investigations for the Special Education Student, The Game Show</i>, pp. 45-65  <i>Spanish Study Guide and Assessment 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>            Unit 10</p>	<p><b>Applications</b>  <i>Family Letters and Activities</i>, pp. 25-26  <i>Spanish Family Letters and Activities</i>, pp. 25-26</p>



# Chapter Project (pp. 512-513)



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

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

## Objectives

- \_\_\_\_\_ Use probability to explore how camouflage works.
- \_\_\_\_\_ Research how animals are camouflaged.
- \_\_\_\_\_ Write a report on how a probability experiment can be used to illustrate camouflage.

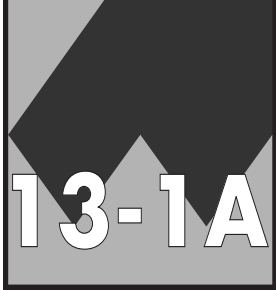
## Theme: Wildlife Animals

- \_\_\_\_\_ Chapter Project, *SE*, p. 513
- \_\_\_\_\_ Chapter 13 Notes, *TWE*, p. 512
- \_\_\_\_\_ Question of the Day, *TWE*, p. 512
- \_\_\_\_\_ ⇔ *Investigations and Projects Masters*, pp. 65-68

### Homework Assignments

- \_\_\_\_\_ p. 518, Working on the Chapter Project, Exercise 27
- \_\_\_\_\_ p. 529, Working on the Chapter Project, Exercise 23
- \_\_\_\_\_ p. 543, Completing the Chapter Project, Alternative Assessment

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



# Lesson Planning Guide (p. 514)



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

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

## Objectives

\_\_\_\_\_ Explore fair and unfair games.

<b>NCTM Standards:</b> 1, 2, 5-10
<b>Georgia Quality Core Curriculum:</b> <b>Grade 6:</b> 1, 2, 41, 50

## MANAGEMENT

\_\_\_\_\_ Getting Started, *TWE*, p. 514

\_\_\_\_\_ ⇨ *Hands-On Lab Masters*, p. 21: number cube patterns

\_\_\_\_\_ ⇨ *Teacher's Guide for Overhead Manipulative Resources*, Lesson 13-1A

## ASSESS

\_\_\_\_\_ *TWE*, p. 514

\_\_\_\_\_ ⇨ *Hands-On Lab Masters*, p. 67

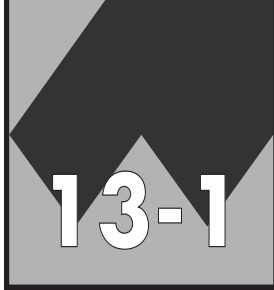
### Class Activity (p. 514)

\_\_\_\_\_ All: 1-5

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

\_\_\_\_\_ Math Journal, *TWE*, p. 514

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# Lesson Planning Guide (pp. 515-519)



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

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

## Objectives

\_\_\_\_\_ Find and interpret the theoretical probability of an event.

<b>NCTM Standards:</b> 1, 2, 5-10
<b>Georgia Quality Core Curriculum:</b> <b>Grade 6:</b> 1, 41, 44, 45

## 1 FOCUS

- \_\_\_\_\_ 5-Minute Check, *TWE*, p. 515
- \_\_\_\_\_ ⇨ Transparency 13-1A
- \_\_\_\_\_ Motivating the Lesson, Communication, *TWE*, p. 516
- \_\_\_\_\_ Cross-Curriculum Cue, *TWE*, p. 515

## 2 TEACH

- \_\_\_\_\_ ⇨ Transparency 13-1B
- \_\_\_\_\_ Reading Mathematics, *TWE*, p. 516
- \_\_\_\_\_ In-Class Examples, *TWE*, p. 516
- \_\_\_\_\_ ⇨ *Study Guide Masters*, p. 90
- \_\_\_\_\_ Reteaching the Lesson, *TWE*, p. 517
- \_\_\_\_\_ Error Analysis, *TWE*, p. 517
- \_\_\_\_\_ ⇨ *CD-ROM Program*, Resource Lesson 13-1, Interactive Lesson 13-1

## 3 PRACTICE/APPLY

- \_\_\_\_\_ Check for Understanding, *SE*, p. 517

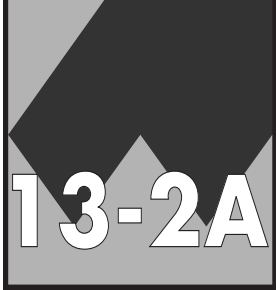
<b>Homework Assignments (pp. 517-518)</b>	
_____ Core: 11-25 odd, 28-32	_____ Enriched: 12-24 even, 25, 26, 28-32
_____ Optional: 27 (Working on the Chapter Project)	
_____ Alternate Assignment: _____	

- \_\_\_\_\_ Extra Practice, *SE*, p. 590
- \_\_\_\_\_ ⇨ *Practice Masters*, p. 90
- \_\_\_\_\_ ⇨ *Diversity Masters*, p. 13
- \_\_\_\_\_ ⇨ *Georgia Parent and Student Study Guide Workbook*, p. 102

## 4 ASSESS

- \_\_\_\_\_ Closing Activity, Modeling, *TWE*, p. 518
- \_\_\_\_\_ Extending the Lesson, *TWE*, p. 518
- \_\_\_\_\_ ⇨ *Enrichment Masters*, p. 90

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# Lesson Planning Guide (pp. 520-521)



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

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

## Objectives

\_\_\_\_\_ Solve problems by making a table.

### 1 FOCUS

\_\_\_\_\_ Getting Started, *TWE*, p. 520

### 2 TEACH

\_\_\_\_\_ In-Class Examples, *TWE*, p. 520

\_\_\_\_\_ Reteaching the Lesson, *TWE*, p. 520

### 3 PRACTICE/APPLY

\_\_\_\_\_ Check for Understanding, *TWE*, p. 521

<b>NCTM Standards:</b> 1, 2, 5-10
<b>Georgia Quality Core Curriculum:</b> <b>Grade 6:</b> 1, 2, 41, 46, 48, 50, 51, 53

### Homework Assignments (p. 521)

\_\_\_\_\_ All: 5-13

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

\_\_\_\_\_ Extra Practice, *SE*, p. 591

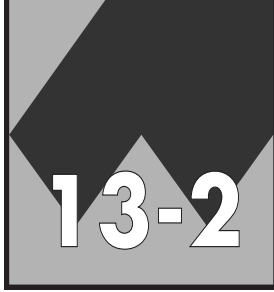
\_\_\_\_\_ Mixed Problem Solving, *SE*, pp. 593-594

### 4 ASSESS

\_\_\_\_\_ Closing Activity, Writing, *TWE*, p. 521

\_\_\_\_\_ Extending the Lesson, *TWE*, p. 521

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# Lesson Planning Guide (pp. 522-525)



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

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

## Objectives

\_\_\_\_\_ Predict the actions of a larger group using a sample.

<b>NCTM Standards:</b> 1-9
<b>Georgia Quality Core Curriculum:</b> <b>Grade 6:</b> 1, 41, 44, 45

## 1 FOCUS

- \_\_\_\_\_ 5-Minute Check, *TWE*, p. 522
- \_\_\_\_\_ ⇨ Transparency 13-2A
- \_\_\_\_\_ Motivating the Lesson, Hands-On-Activity, *TWE*, p. 522
- \_\_\_\_\_ Multiple Learning Styles, Intrapersonal, *TWE*, p. 522

## 2 TEACH

- \_\_\_\_\_ ⇨ Transparency 13-2B
- \_\_\_\_\_ Using the Mini-Lab, *TWE*, p. 523
- \_\_\_\_\_ ⇨ *Teacher's Guide for Overhead Manipulative Resources*, Mini-Lab for Lesson 13-2
- \_\_\_\_\_ In-Class Examples, *TWE*, p. 523
- \_\_\_\_\_ ⇨ *Study Guide Masters*, p. 91
- \_\_\_\_\_ Reteaching the Lesson, *TWE*, p. 524
- \_\_\_\_\_ ⇨ *CD-ROM Program*, Resource Lesson 13-2

## 3 PRACTICE/APPLY

- \_\_\_\_\_ Check for Understanding, *SE*, p. 524

### Homework Assignments (pp. 524-525)

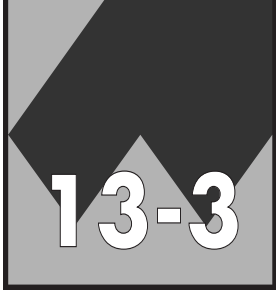
- \_\_\_\_\_ Core: 9-19 odd, 20-23
- \_\_\_\_\_ Enriched: 8-16 even, 18-23
- \_\_\_\_\_ Alternate Assignment: \_\_\_\_\_

- \_\_\_\_\_ Extra Practice, *SE*, p. 591
- \_\_\_\_\_ ⇨ *Practice Masters*, p. 91
- \_\_\_\_\_ ⇨ *Technology Masters*, Calculator Activity, p. 25
- \_\_\_\_\_ School to Career Activity, *SE*, p. 519
- \_\_\_\_\_ ⇨ *Georgia Parent and Student Study Guide Workbook*, p. 103

## 4 ASSESS

- \_\_\_\_\_ Closing Activity, Speaking, *TWE*, p. 525
- \_\_\_\_\_ ⇨ *Assessment and Evaluation Masters*, Quiz A, p. 351
- \_\_\_\_\_ Extending the Lesson, *TWE*, p. 525
- \_\_\_\_\_ ⇨ *Enrichment Masters*, p. 91
- \_\_\_\_\_ Mid-Chapter Self Test, *SE*, p. 525

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# Lesson Planning Guide (pp. 526-529)



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

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

## Objectives

\_\_\_\_\_ Find probability using area models.

## 1 FOCUS

- \_\_\_\_\_ 5-Minute Check, *TWE*, p. 526
- \_\_\_\_\_ ⇨ Transparency 13-3A
- \_\_\_\_\_ Motivating the Lesson, Problem Solving, *TWE*, p. 526
- \_\_\_\_\_ Multiple Learning Styles, Auditory/Musical, *TWE*, p. 526

## 2 TEACH


- \_\_\_\_\_ ⇨ Transparency 13-3B
- \_\_\_\_\_ Using the Mini-Lab, *TWE*, p. 527
- \_\_\_\_\_ ⇨ *Teacher's Guide for Overhead Manipulative Resources*, Mini-Lab for Lesson 13-3
- \_\_\_\_\_ In-Class Examples, *TWE*, p. 527
- \_\_\_\_\_ ⇨ *Study Guide Masters*, p. 92
- \_\_\_\_\_ Reteaching the Lesson, *TWE*, p. 528
- \_\_\_\_\_ Error Analysis, *TWE*, p. 528
- \_\_\_\_\_ ⇨ *CD-ROM Program*, Resource Lesson 13-3, Interactive Lesson 13-3
- \_\_\_\_\_ ⇨ *Interactive Mathematics Tools Software*

## 3 PRACTICE/APPLY

- \_\_\_\_\_ Check for Understanding, *SE*, pp. 527-528

### Homework Assignments (pp. 528-529)

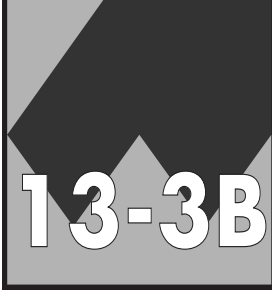
- \_\_\_\_\_ Core: 9-21 odd, 24-27 \_\_\_\_\_ Enriched: 10-20 even, 21, 22, 24-27
- \_\_\_\_\_ Optional: 23 (Working on the Chapter Project)
- \_\_\_\_\_ Alternate Assignment: \_\_\_\_\_

- \_\_\_\_\_ Extra Practice, *SE*, p. 591
- \_\_\_\_\_ ⇨ *Practice Masters*, p. 92
- \_\_\_\_\_ ⇨ *Hands-On Lab Masters*, p. 81
- \_\_\_\_\_ ⇨  *Georgia Parent and Student Study Guide Workbook*, p. 104

## 4 ASSESS

- \_\_\_\_\_ Closing Activity, Writing, *TWE*, p. 529
- \_\_\_\_\_ ⇨ *Assessment and Evaluation Masters*, Mid-Chapter Test, p. 350
- \_\_\_\_\_ ⇨ *Assessment and Evaluation Masters*, Quiz B, p. 351
- \_\_\_\_\_ Extending the Lesson, *TWE*, p. 529
- \_\_\_\_\_ ⇨ *Enrichment Masters*, p. 92

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# Lesson Planning Guide (p. 530)



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

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

## Objectives

\_\_\_\_\_ Investigate geometric probability by using a graphing calculator.

## MANAGEMENT

\_\_\_\_\_ Getting Started, *TWE*, p. 530

## ASSESS

\_\_\_\_\_ *TWE*, p. 530

<b>NCTM Standards:</b> 1-9
<b>Georgia Quality Core Curriculum:</b> <b>Grade 6:</b> 1, 3, 41, 44, 45

### *Class Activity (p. 530)*

\_\_\_\_\_ All: 1-5

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

\_\_\_\_\_ Math Journal, *TWE*, p. 530

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# Lesson Planning Guide (pp. 531-534)



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

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

## Objectives

\_\_\_\_\_ Find outcomes using lists, tree diagrams, and combinations.

<b>NCTM Standards:</b> 1-10
<b>Georgia Quality Core Curriculum:</b> <b>Grade 6: 1, 41</b>

## 1 FOCUS

- \_\_\_\_\_ 5-Minute Check, *TWE*, p. 531
- \_\_\_\_\_ ⇨ Transparency 13-4A
- \_\_\_\_\_ Motivating the Lesson, Problem Solving, *TWE*, p. 532
- \_\_\_\_\_ Multiple Learning Styles, Verbal/Linguistic, *TWE*, p. 531


## 2 TEACH

- \_\_\_\_\_ ⇨ Transparency 13-4B
- \_\_\_\_\_ Reading Mathematics, *TWE*, p. 532
- \_\_\_\_\_ In-Class Examples, *TWE*, p. 532
- \_\_\_\_\_ ⇨ *Study Guide Masters*, p. 93
- \_\_\_\_\_ Reteaching the Lesson, *TWE*, p. 533
- \_\_\_\_\_ Error Analysis, *TWE*, p. 533
- \_\_\_\_\_ ⇨ *CD-ROM Program*, Resource Lesson 13-4

## 3 PRACTICE/APPLY

- \_\_\_\_\_ Check for Understanding, *SE*, p. 533

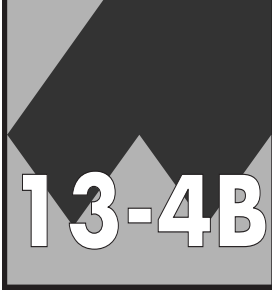
<b>Homework Assignments (pp. 533-534)</b>	
_____ Core: 9-17 odd, 19-22	_____ Enriched: 8-16 even, 17-22
_____ Alternate Assignment: _____	

- \_\_\_\_\_ Extra Practice, *SE*, p. 592
- \_\_\_\_\_ ⇨ *Practice Masters*, p. 93
- \_\_\_\_\_ ⇨ *Technology Masters*, Graphing Calculator Activity, p. 26
- \_\_\_\_\_ Family Activity, *SE*, p. 533
- \_\_\_\_\_ ⇨  *Georgia Parent and Student Study Guide Workbook*, p. 105

## 4 ASSESS

- \_\_\_\_\_ Closing Activity, Act It Out, *TWE*, p. 534
- \_\_\_\_\_ ⇨ *Assessment and Evaluation Masters*, Quiz C, p. 534
- \_\_\_\_\_ Extending the Lesson, *TWE*, p. 534
- \_\_\_\_\_ ⇨ *Enrichment Masters*, p. 93

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# Lesson Planning Guide (p. 535)



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

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

## Objectives

\_\_\_\_\_ Explore probability by conducting a simulation.

<b>NCTM Standards:</b> 5-9
<b>Georgia Quality Core Curriculum:</b> <b>Grade 6:</b> 1, 2, 41, 45, 50, 53

## MANAGEMENT

\_\_\_\_\_ Getting Started, *TWE*, p. 535

\_\_\_\_\_ ⇨ *Hands-On Lab Masters*, p. 6: counters, p. 8: pattern for cup

\_\_\_\_\_ ⇨ *Teacher's Guide for Overhead Manipulative Resources*, Lesson 13-4B

\_\_\_\_\_ ⇨ *Overhead Manipulative Resources*: counters, cups

## ASSESS

\_\_\_\_\_ *TWE*, p. 535

\_\_\_\_\_ ⇨ *Hands-On Lab Masters*, p. 68

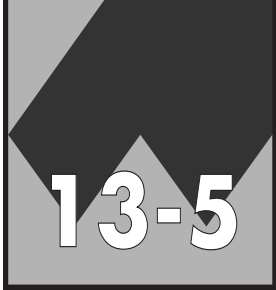
### Class Activity (p. 535)

\_\_\_\_\_ All: 1-4

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

\_\_\_\_\_ Math Journal, *TWE*, p. 535

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# Lesson Planning Guide (pp. 536-539)



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

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

## Objectives

\_\_\_\_\_ Find the probability of independent events.

<b>NCTM Standards:</b> 1-10
<b>Georgia Quality Core Curriculum:</b> <b>Grade 6:</b> 1, 41, 45, 53

## 1 FOCUS

- \_\_\_\_\_ 5-Minute Check, *TWE*, p. 536
- \_\_\_\_\_ ⇨ Transparency 13-5A
- \_\_\_\_\_ Motivating the Lesson, Communication, *TWE*, p. 536
- \_\_\_\_\_ Multiple Learning Styles, Logical, *TWE*, p. 536


## 2 TEACH

- \_\_\_\_\_ ⇨ Transparency 13-5B
- \_\_\_\_\_ Thinking Algebraically, *TWE*, p. 537
- \_\_\_\_\_ In-Class Examples, *TWE*, p. 537
- \_\_\_\_\_ ⇨ *Study Guide Masters*, p. 94
- \_\_\_\_\_ Reteaching the Lesson, *TWE*, p. 538
- \_\_\_\_\_ ⇨ *CD-ROM Program*, Resource Lesson 3-5

## 3 PRACTICE/APPLY

- \_\_\_\_\_ Check for Understanding, *SE*, p. 538

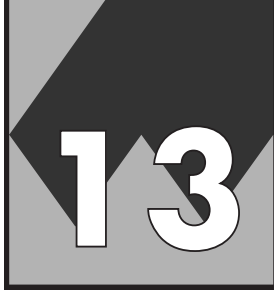
<b>Homework Assignments (pp. 538-539)</b>	
_____ Core: 9-19 odd, 20-23	_____ Enriched: 8-16 even, 18-23
_____ Alternate Assignment: _____	

- \_\_\_\_\_ Extra Practice, *SE*, p. 592
- \_\_\_\_\_ ⇨ *Practice Masters*, p. 94
- \_\_\_\_\_ ⇨ *Science and Mathematics Lab Manual*, pp. 93-96
- \_\_\_\_\_ ⇨ *Classroom Games*, pp. 37-40
- \_\_\_\_\_ ⇨  *Georgia Parent and Student Study Guide Workbook*, p. 106

## 4 ASSESS

- \_\_\_\_\_ Let the Games Begin, *SE*, p. 539
- \_\_\_\_\_ Closing Activity, Speaking, *TWE*, p. 539
- \_\_\_\_\_ ⇨ *Assessment and Evaluation Masters*, Quiz D, p. 352
- \_\_\_\_\_ Extending the Lesson, *TWE*, p. 539
- \_\_\_\_\_ ⇨ *Enrichment Masters*, p. 94

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# Review and Assessment (pp. 540-545)



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

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

Testing M Tu W Th F

\_\_\_\_\_ Study Guide and Assessment, *SE*, pp. 540-543

\_\_\_\_\_ Standardized Test Practice, *SE*, pp. 544-545

\_\_\_\_\_ Chapter Test, *SE*, p. 607

## ⇔ **Assessment and Evaluation Masters (pp. 337-355)**

### *Multiple-Choice Tests*

\_\_\_\_\_ Form 1A, 1B, or 1C, pp. 337-342

\_\_\_\_\_ Standardized Test Practice, pp. 353-354

### *Free-Response Tests*

\_\_\_\_\_ Form 2A, 2B, or 2C, pp. 343-348

\_\_\_\_\_ Performance Assessment, p. 349

\_\_\_\_\_ Cumulative Review, p. 355

\_\_\_\_\_ ⇔ *MindJogger Videoquizzes*, Chapter 13

\_\_\_\_\_ ⇔ *Test and Review Software*

\_\_\_\_\_ ⇔ *CD-ROM Assessment Game*

\_\_\_\_\_ ⇔ *State Test Preparation CD-ROM*

\_\_\_\_\_ ⇔  *Georgia Parent and Student Study Guide Workbook*, p. 107

\_\_\_\_\_ ⇔  *Georgia Stanford 9 Practice and Sample Test Workbook*

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