

13 Using Probability



Chapter Pacing Guide

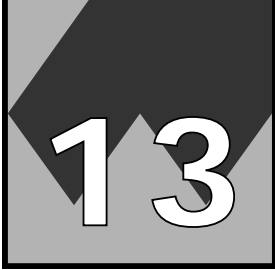
Please note that this pacing guide is based upon completing the entire text in 165 classes, approximately 50 minutes each. More time can be allotted for this chapter if you do not plan to teach the entire text.

<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>Meeting Individual Needs <i>Investigations for the Special Education Student, The Game Show</i>, pp. 45-46 <i>Spanish Study Guide and Assessment 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 Unit 10</p>	<p>Applications <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.

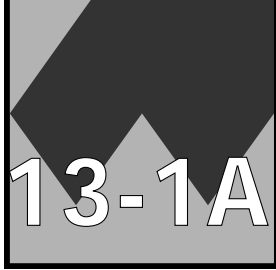
Theme: *Wildlife Animals*

- _____ 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.

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

The California Mathematics Academic Content Standards	
Grade 5:	MR2.3, MR2.4
Basic Lesson	
Grade 6:	SDP3.3, MR1.2
Key Lesson	

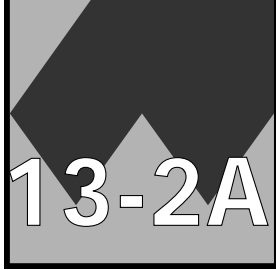
ASSESS

- _____ *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. 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

The California Mathematics Academic Content Standards
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Grade 5: MR2.3, MR2.4, MR3.2
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Basic Lesson

Grade 6: NS2.3, AF1.2, SDP3.1, SDP3.3, MR3.2

Key Lesson

Homework Assignments (p. 521)

_____ All: 5-13

_____ Alternate Assignment: _____

_____ Extra Practice, *SE*, p. 591

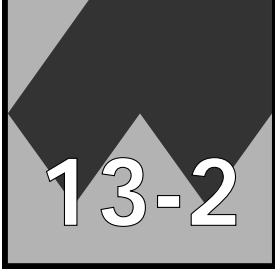
_____ Mixed Problem Solving, *SE*, pp. 593-594

4 ASSESS

_____ Closing Activity, Writing, *TWE*, p. 521

_____ Extending the Lesson, *TWE*, p. 521

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

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: _____

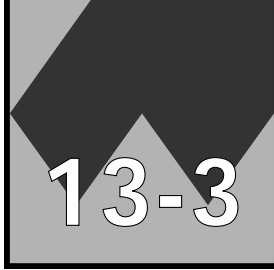
- _____ Extra Practice, *SE*, p. 591
- _____ ⇨ *Practice Masters*, p. 91
- _____ ⇨ *Technology Masters*, Calculator Activity, p. 25

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

The California Mathematics Academic Content Standards	
Grade 5:	MR2.3, MR2.4
Basic Lesson	
Grade 6:	NS1.2, NS1.3, NS1.4, AF1.1, AF2.1, SDP2.1, SDP2.2, SDP2.4, SDP2.5, SDP3.1, SDP3.2, SDP3.3, MR1.2
🔑 Key Lesson	

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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

The California Mathematics Academic Content Standards	
Grade 5:	MR2.3, MR2.4
Basic Lesson	
Grade 6:	NS1.2, AF1.1, AF3.1, AF3.2, MG1.2, SDP2.2, SDP3.1, SDP3.3, MR2.2
🔑 Key Lesson	

Homework Assignments (pp. 528-529)

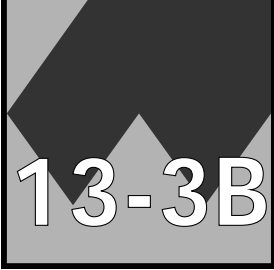
- _____ Core: 9-21 odd, 24-27 _____ Enriched: 10-20 even, 21, 22, 24-27
- _____ Optional: 23 (Working on the Chapter Project)
- _____ Alternate Assignment: _____

- _____ Extra Practice, *SE*, p. 591
- _____ ⇨ *Practice Masters*, p. 92
- _____ ⇨ *Hands-On Lab Masters*, p. 81

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

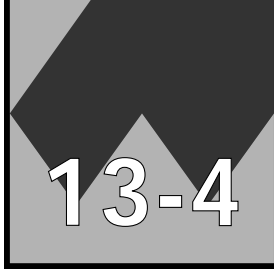
The California Mathematics Academic Content Standards
Grade 5: MR2.3, MR2.4 Basic Lesson
Grade 6: AF3.1, AF3.2, SDP3.2, SDP3.3 Basic Lesson

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.

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

Homework Assignments (pp. 533-534)

_____ Core: 9-17 odd, 19-22 _____ Enriched: 8-16 even, 17-22
 _____ Alternate Assignment: _____

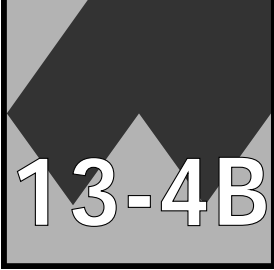
- _____ Extra Practice, *SE*, p. 592
- _____ ⇨ *Practice Masters*, p. 93
- _____ ⇨ *Technology Masters*, Graphing Calculator Activity, p. 26
- _____ Family Activity, *SE*, p. 533

4 ASSESS

- _____ Closing Activity, Act It Out, *TWE*, p. 534
- _____ ⇨ *Assessment and Evaluation Masters*, Quiz C, p. 352
- _____ Extending the Lesson, *TWE*, p. 534
- _____ ⇨ *Enrichment Masters*, p. 93

The California Mathematics Academic Content Standards
Grade 5: MR2.3, MR2.4
Basic Lesson
Grade 6: NS1.2, NS1.4, NS2.3, AF3.1, AF3.2, SDP3.1, SDP3.3, MR2.3, MR2.5
Key Lesson

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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.

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

The California Mathematics
Academic Content Standards

Grade 5: MR2.3, MR2.4

Basic Lesson

Grade 6: NS1.2, SDP3.1,
SDP3.2, SDP3.3

Key Lesson

ASSESS

_____ *TWE*, p. 535

_____ ⇨ *Hands-On Lab Masters*, p. 68

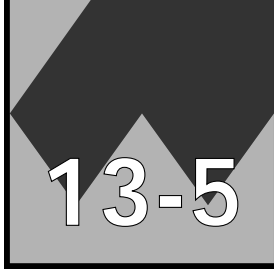
Class Activity (p. 535)

_____ 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.

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

The California Mathematics Academic Content Standards	
Grade 5:	MR2.3, MR2.4, MR2.6, MR3.1
Basic Lesson	
Grade 6:	NS1.2, NS2.1, NS2.4, AF3.1, AF3.2, MG1.2, SDP3.3, SDP3.4, SDP3.5, MR2.2
🔑 Key Lesson	

Homework Assignments (pp. 538-539)

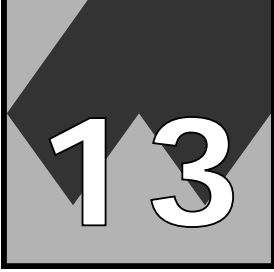
- _____ Core: 9-19 odd, 20-23 _____ Enriched: 8-16 even, 18-23
 _____ Alternate Assignment: _____

- _____ Extra Practice, *SE*, p. 592
- _____ ⇨ *Practice Masters*, p. 94
- _____ ⇨ *Science and Mathematics Lab Manual*, pp. 93-96
- _____ ⇨ *Classroom Games*, pp. 37-40

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

Free-Response Tests

- | | |
|---|---------------------------------------|
| _____ Form 1A, 1B, or 1C, pp. 337-342 | _____ Form 2A, 2B, or 2C, pp. 343-348 |
| _____ Standardized Test Practice, pp. 353-354 | _____ 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*
- _____ ⇔  *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

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