

11 Algebra: Investigating Integers



Chapter Pacing Guide

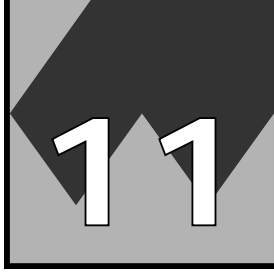
Please note that this pacing guide is based upon completing the entire text in 165 classes, approximately 50 minutes each. More time can be allotted for this chapter if you do not plan to teach the entire text.

<i>Day (Standard)</i>	<i>Day (Honors)</i>	<i>Lesson</i>	<i>Title</i>
1	1	*Chapter Project	Theme: Civics You Win Some, You Lose Some
2	2	11-1	Integers
3 & 4	3	11-2	Comparing and Ordering Integers
5 & 6		*11-3A	<small>HANDS-ON LAB</small> Cooperative Learning Zero Pairs
	4	11-3	Adding Integers
7	5	11-4	Subtracting Integers
8	6	11-5	Multiplying Integers
9	7	11-6A	<small>THINKING LAB</small> Problem Solving Work Backward
10	8	11-6	Dividing Integers
11	9	11-7	Integration: Geometry The Coordinate System
12 & 13		*11-8A	<small>HANDS-ON LAB</small> Cooperative Learning Patty Paper Transformations
	10 & 11	11-8	Integration: Geometry Graphing Transformations
14	12	Review: Study Guide and Assessment	
15	13	Assessment: Chapter Test	

* Optional

Chapter Resources

<p>Meeting Individual Needs Spanish Study Guide and Assessment Study Guide and Practice Workbook</p>	<p>Technology Electronic Teacher's Classroom Resources (ETCR) www.glencoe.com/sec/math/mac/mathnet</p>
<p>Interactive Mathematics: Activities and Investigations Units 3 and 15</p>	<p>Applications Family Letters and Activities, pp. 21-22 Spanish Family Letters and Activities, pp. 21-22</p>



Chapter Project (pp. 432-433)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Show changes in numbers of members in the House of Representatives for each state.
- _____ Make a line plot of the changes.

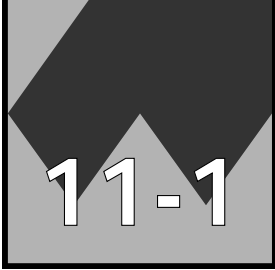
Theme: Civics

- _____ Chapter Project, *SE*, p. 433
- _____ Chapter 11 Notes, *TWE*, p. 432
- _____ Question of the Day, *TWE*, p. 432
- _____ ⇔ *Investigations and Projects Masters*, pp. 57-60

Homework Assignments

- _____ p. 436, Working on the Chapter Project, Exercise 41
- _____ p. 444, Working on the Chapter Project, Exercise 34
- _____ p. 461, Working on the Chapter Project, Exercise 34
- _____ p. 471, Completing the Chapter Project, Alternative Assessment

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



Lesson Planning Guide (pp. 434-436)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

_____ Identify, name, and graph integers.

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 434
- _____ ⇨ Transparency 11-1A
- _____ Motivating the Lesson, Hands-On-Activity, *TWE*, p. 434
- _____ Cross-Curriculum Cue, *TWE*, p. 434

2 TEACH

- _____ ⇨ Transparency 11-1B
- _____ Mastering Basic Skills, *TWE*, p. 435
- _____ In-Class Examples, *TWE*, p. 435
- _____ ⇨ *Study Guide Masters*, p. 76
- _____ Reteaching the Lesson, *TWE*, p. 435
- _____ ⇨ *CD-ROM Program*, Resource Lesson 11-1

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 435

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

Homework Assignments (p. 436)

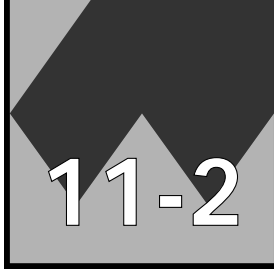
- _____ Core: 15-39 odd, 42-47 _____ Enriched: 14-38 even, 39, 40, 42-47
- _____ Optional: 41 (Working on the Chapter Project)
- _____ Alternate Assignment: _____

- _____ Extra Practice, *SE*, p. 585
- _____ ⇨ *Practice Masters*, p. 76

4 ASSESS

- _____ Closing Activity, Modeling, *TWE*, p. 436
- _____ Extending the Lesson, *TWE*, p. 436
- _____ ⇨ *Enrichment Masters*, p. 76

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



Lesson Planning Guide (pp. 437-439)



Teacher's Name _____ Dates _____
Grade _____ Class _____ M Tu W Th F

Objectives

_____ Compare and order integers.

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 437
- _____ ⇨ Transparency 11-2A
- _____ Multiple Learning Styles, Visual/Spatial, *TWE*, p. 437

2 TEACH

- _____ ⇨ Transparency 11-2B
- _____ Reading Mathematics, *TWE*, p. 437
- _____ In-Class Examples, *TWE*, p. 438
- _____ ⇨ *Study Guide Masters*, p. 77
- _____ Reteaching the Lesson, *TWE*, p. 438
- _____ Error Analysis, *TWE*, p. 438
- _____ ⇨ *CD-ROM Program*, Resource Lesson 11-2, Interactive Lesson 11-2

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 438

The California Mathematics Academic Content Standards	
Grade 5:	NS1.5, MR2.3, MR2.4 Key Lesson
Grade 6:	NS2.1, NS2.4, AF3.1, AF3.2, SDP2.3, MR1.1 Key Lesson

Homework Assignments (pp. 438-439)

- _____ Core: 9-23 odd, 25-28 _____ Enriched: 10-22 even, 23-28
 _____ Alternate Assignment: _____

- _____ Extra Practice, *SE*, p. 585
- _____ ⇨ *Practice Masters*, p. 77
- _____ ⇨ *School to Career Masters*, p. 11

4 ASSESS

- _____ Closing Activity, Modeling, *TWE*, p. 439
- _____ ⇨ *Assessment and Evaluation Masters*, Quiz A, p. 295
- _____ Extending the Lesson, *TWE*, p. 439
- _____ ⇨ *Enrichment Masters*, p. 77

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Lesson Planning Guide (p. 440)



Teacher's Name _____ Dates _____
Grade _____ Class _____ M Tu W Th F

Objectives

_____ Model integers using counters.

MANAGEMENT

- _____ Getting Started, *TWE*, p. 440
- _____ ⇨ *Hands-On Lab Masters*, p. 6: counters;
p. 9: integer mat
- _____ ⇨ *Teacher's Guide for Overhead Manipulative Resources*,
Lesson 11-3A
- _____ ⇨ *Overhead Manipulative Resources*: counters, integer mat

The California Mathematics Academic Content Standards	
Grade 5:	NS2.1, MR2.3, MR2.4
Key Lesson	
Grade 6:	Optional Lesson

ASSESS

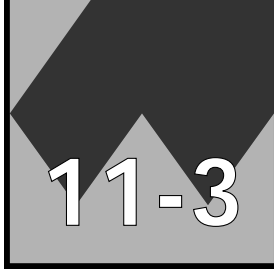
- _____ *TWE*, p. 440
- _____ ⇨ *Hands-On Lab Masters*, p. 64

Class Activity (p. 440)

_____ All: 1-7
 _____ Alternate Assignment: _____

_____ Math Journal, *TWE*, p. 440

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



Lesson Planning Guide (pp. 441-444)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

_____ Add integers using models.

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 441
- _____ ⇨ Transparency 11-3A
- _____ Motivating the Lesson, Hands-On-Activity, *TWE*, p. 441

2 TEACH

- _____ ⇨ Transparency 11-3B
- _____ Using Problem Solving, *TWE*, p. 442
- _____ In-Class Examples, *TWE*, p. 442
- _____ ⇨ *Study Guide Masters*, p. 78
- _____ Reteaching the Lesson, *TWE*, p. 443
- _____ Error Analysis, *TWE*, p. 443
- _____ ⇨ *CD-ROM Program*, Resource Lesson 11-3, Interactive Lesson 11-3
- _____ ⇨ *Interactive Mathematics Tools Software*

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 443

The California Mathematics Academic Content Standards	
Grade 5:	NS2.1, MR2.3, MR2.4
	🔑 Key Lesson
Grade 6:	NS2.3, MR1.1
	🔑 Key Lesson

Homework Assignments (pp. 443-444)

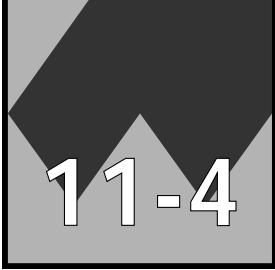
- _____ Core: 11-33 odd, 35-39 _____ Enriched: 12-30 even, 32, 33, 35-39
- _____ Optional: 34 (Working on the Chapter Project)
- _____ Alternate Assignment: _____

- _____ Extra Practice, *SE*, p. 586
- _____ ⇨ *Practice Masters*, p. 78
- _____ ⇨ *Classroom Games*, pp. 29-32

4 ASSESS

- _____ Let the Games Begin, *SE*, p. 444
- _____ Closing Activity, Modeling, *TWE*, p. 444
- _____ Extending the Lesson, *TWE*, p. 444
- _____ ⇨ *Enrichment Masters*, p. 78

KEY	<i>SE</i> = Student Edition	<i>TWE</i> = Teacher's Wraparound Edition	⇨ = Other Program Components
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Lesson Planning Guide (pp. 445-448)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

_____ Subtract integers using models.

1 FOCUS

_____ 5-Minute Check, *TWE*, p. 445

_____ ⇨ Transparency 11-4A

_____ Motivating the Lesson, Problem Solving, *TWE*, p. 445

2 TEACH

_____ ⇨ Transparency 11-4B

_____ Using Discussion, *TWE*, p. 446

_____ In-Class Examples, *TWE*, p. 446

_____ ⇨ *Study Guide Masters*, p. 79

_____ Reteaching the Lesson, *TWE*, p. 447

_____ Error Analysis, *TWE*, p. 447

_____ ⇨ *CD-ROM Program*, Resource Lesson 11-4, Interactive Lesson 11-4

3 PRACTICE/APPLY

_____ Check for Understanding, *SE*, p. 447

The California Mathematics Academic Content Standards

Grade 5: NS2.1, MR2.3,
MR2.4, MR2.6,
MR3.1

🔑 Key Lesson

Grade 6: NS2.1, NS2.3,
NS2.4, SDP2.3

🔑 Key Lesson

Homework Assignments (p. 448)

_____ Core: 9-23 odd, 25-28

_____ Enriched: 10-22 even, 23-28

_____ Alternate Assignment: _____

_____ Extra Practice, *SE*, p. 586

_____ ⇨ *Practice Masters*, p. 79

4 ASSESS

_____ Closing Activity, Writing, *TWE*, p. 448

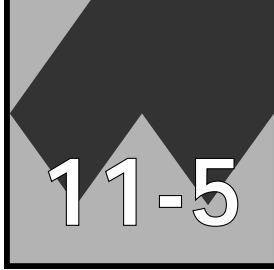
_____ ⇨ *Assessment and Evaluation Masters*, Mid-Chapter Test, p. 294

_____ ⇨ *Assessment and Evaluation Masters*, Quiz B, p. 295

_____ Extending the Lesson, *TWE*, p. 448

_____ ⇨ *Enrichment Masters*, p. 79

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Lesson Planning Guide (pp. 449-453)



Teacher's Name _____ Dates _____
Grade _____ Class _____ M Tu W Th F

Objectives

_____ Multiply integers using models.

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 449
- _____ ⇨ Transparency 11-5A
- _____ Motivating the Lesson, Problem Solving, *TWE*, p. 449
- _____ Multiple Learning Styles, Interpersonal, *TWE*, p. 449

2 TEACH

- _____ ⇨ Transparency 11-5B
- _____ Thinking Algebraically, *TWE*, p. 450
- _____ In-Class Examples, *TWE*, p. 450
- _____ ⇨ *Study Guide Masters*, p. 80
- _____ Reteaching the Lesson, *TWE*, p. 451
- _____ ⇨ *CD-ROM Program*, Resource Lesson 11-5, Interactive Lesson 11-5

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 451

The California Mathematics Academic Content Standards	
Grade 5:	NS2.1, MR2.3, MR2.4, MR2.6, MR3.1
	🔑 Key Lesson
Grade 6:	NS1.3, NS2.3, AF1.1, AF2.1
	🔑 Key Lesson

Homework Assignments (pp. 451-452)

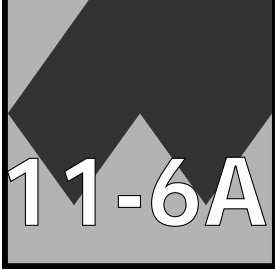
- _____ Core: 9-23 odd, 25-28 _____ Enriched: 10-22 even, 23-28
 _____ Alternate Assignment: _____

- _____ Extra Practice, *SE*, p. 586
- _____ ⇨ *Practice Masters*, p. 80
- _____ ⇨ *Science and Mathematics Lab Manual*, pp. 89-92
- _____ School to Career Activity, *SE*, p. 453

4 ASSESS

- _____ Closing Activity, Writing, *TWE*, p. 452
- _____ Extending the Lesson, *TWE*, p. 452
- _____ ⇨ *Enrichment Masters*, p. 80
- _____ Mid-Chapter Self Test, *SE*, p. 453

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Lesson Planning Guide (pp. 454-455)



Teacher's Name _____ Dates _____
 Grade _____ Class _____ M Tu W Th F

Objectives

_____ Solve problems by working backward.

1 FOCUS


_____ Getting Started, *TWE*, p. 454

2 TEACH

_____ In-Class Examples, *TWE*, p. 454
 _____ Reteaching the Lesson, *TWE*, p. 454

3 PRACTICE/APPLY

_____ Check for Understanding, *TWE*, p. 455

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

Homework Assignments (p. 455)

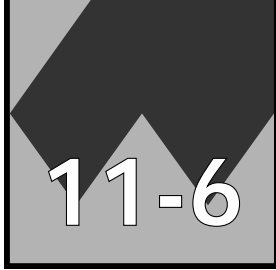
_____ All: 4-14
 _____ Alternate Assignment: _____

_____ Extra Practice, *SE*, p. 587
 _____ Mixed Problem Solving, *SE*, pp. 593-594

4 ASSESS

_____ Closing Activity, Writing, *TWE*, p. 455
 _____ Extending the Lesson, *TWE*, p. 455

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



Lesson Planning Guide (pp. 456-458)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

_____ Divide integers using models and patterns.

1 FOCUS

_____ 5-Minute Check, *TWE*, p. 456

_____ ⇨ Transparency 11-6A

_____ Motivating the Lesson, Problem Solving, *TWE*, p. 456

2 TEACH

_____ ⇨ Transparency 11-6B

_____ Using Connections, *TWE*, p. 456

_____ In-Class Examples, *TWE*, p. 457

_____ ⇨ *Study Guide Masters*, p. 81

_____ Reteaching the Lesson, *TWE*, p. 457

_____ ⇨ *CD-ROM Program*, Resource Lesson 11-6

3 PRACTICE/APPLY

_____ Check for Understanding, *SE*, pp. 457-458

Homework Assignments (p. 458)

_____ Core: 9-23 odd, 25-28

_____ Enriched: 10-22 even, 23-28

_____ Alternate Assignment: _____

_____ Extra Practice, *SE*, p. 587

_____ ⇨ *Practice Masters*, p. 81

_____ ⇨ *Technology Masters*, Calculator Activity, p. 21

_____ ⇨ *Diversity Masters*, p. 11

4 ASSESS

_____ Closing Activity, Modeling, *TWE*, p. 458

_____ ⇨ *Assessment and Evaluation Masters*, Quiz C, p. 296

_____ Extending the Lesson, *TWE*, p. 458

_____ ⇨ *Enrichment Masters*, p. 81

The California Mathematics Academic Content Standards

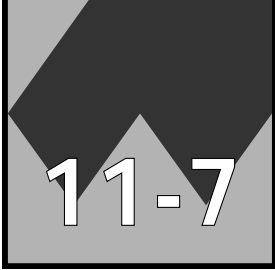
Grade 5: NS2.1, MR2.3, MR2.4

🔑 Key Lesson

Grade 6: NS1.4, NS2.3, SDP2.3, MR2.3

🔑 Key Lesson

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



Lesson Planning Guide (pp. 459-461)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

_____ Graph ordered pairs of numbers on a coordinate grid.

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 459
- _____ ⇨ Transparency 11-7A
- _____ Motivating the Lesson, Communication, *TWE*, p. 459

2 TEACH

- _____ ⇨ Transparency 11-7B
- _____ Reading Mathematics, *TWE*, p. 459
- _____ Multiple Learning Styles, Kinesthetic, *TWE*, p. 459
- _____ In-Class Examples, *TWE*, p. 460
- _____ ⇨ *Study Guide Masters*, p. 82
- _____ Reteaching the Lesson, *TWE*, p. 460
- _____ ⇨ *CD-ROM Program*, Resource Lesson 11-7, Interactive Lesson 11-7

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 460

The California Mathematics Academic Content Standards	
Grade 5:	AF1.4, SDP1.4, SDP1.5, MR2.3, MR2.4
	Key Lesson
Grade 6:	NS2.1, AF1.3, AF3.2, SDP1.1, SDP2.3, MR1.1
	Key Lesson

Homework Assignments (p. 461)

- _____ Core: 11-33 odd, 35-39 _____ Enriched: 12-32 even, 33, 35-39
- _____ Optional: 34 (Working on the Chapter Project)
- _____ Alternate Assignment: _____

- _____ Extra Practice, *SE*, p. 587
- _____ ⇨ *Practice Masters*, p. 82
- _____ ⇨ *Hands-On Lab Masters*, p. 79
- _____ ⇨ *Technology Masters*, Graphing Calculator Activity, p. 22

4 ASSESS

- _____ Closing Activity, Speaking, *TWE*, p. 461
- _____ Extending the Lesson, *TWE*, p. 461
- _____ ⇨ *Enrichment Masters*, p. 82

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Lesson Planning Guide (pp. 462-463)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

_____ Find transformations by using patty paper.

MANAGEMENT

_____ Getting Started, *TWE*, p. 462

ASSESS

_____ *TWE*, p. 463

_____ ⇄ *Hands-On Lab Masters*, p. 65

**The California Mathematics
Academic Content Standards**

Grade 5: MR2.3, MR2.4

Basic Lesson

**Grade 6:
Optional Lesson**

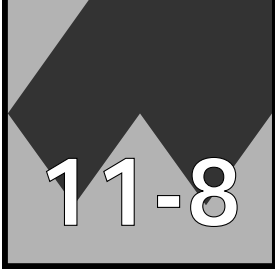
Class Activity (pp. 462-463)

_____ All: 1-5

_____ Alternate Assignment: _____

_____ Math Journal, *TWE*, p. 463

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Lesson Planning Guide (pp. 464-467)



Teacher's Name _____ Dates _____
Grade _____ Class _____ M Tu W Th F

Objectives

_____ Graph transformations on a coordinate grid.

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 464
- _____ ⇨ Transparency 11-8A
- _____ Motivating the Lesson, Hands-On-Activity, *TWE*, p. 464

2 TEACH

- _____ ⇨ Transparency 11-8B
- _____ Using the Mini-Lab, *TWE*, p. 465
- _____ ⇨ *Teacher's Guide for Overhead Manipulative Resources*, Mini-Lab for Lesson 11-8
- _____ In-Class Examples, *TWE*, p. 465
- _____ ⇨ *Study Guide Masters*, p. 83
- _____ Reteaching the Lesson, *TWE*, p. 466
- _____ Error Analysis, *TWE*, p. 466
- _____ ⇨ *CD-ROM Program*, Resource Lesson 11-8

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, pp. 466-467

Homework Assignments (p. 467)

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

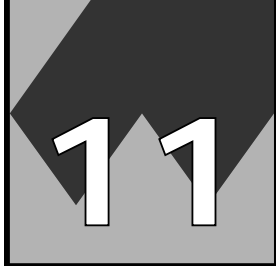
- _____ Extra Practice, *SE*, p. 588
- _____ ⇨ *Practice Masters*, p. 83
- _____ Family Activity, *SE*, p. 467

4 ASSESS

- _____ Closing Activity, Speaking, *TWE*, p. 467
- _____ ⇨ *Assessment and Evaluation Masters*, Quiz D, p. 296
- _____ Extending the Lesson, *TWE*, p. 467
- _____ ⇨ *Enrichment Masters*, p. 83

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

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Review and Assessment (pp. 468-473)



Teacher's Name _____ Dates _____

Grade _____ Class _____
Review M Tu W Th F
Testing M Tu W Th F

_____ Study Guide and Assessment, *SE*, pp. 468-471

_____ Standardized Test Practice, *SE*, pp. 472-473

_____ Chapter Test, *SE*, p. 605

⇔ **Assessment and Evaluation Masters (pp. 281-299)**

Multiple-Choice Tests

_____ Form 1A, 1B, or 1C, pp. 281-286

_____ Standardized Test Practice, pp. 297-298

Free-Response Tests

_____ Form 2A, 2B, or 2C, pp. 287-292

_____ Performance Assessment, p. 293


_____ Cumulative Review, p. 299


_____ ⇔ *MindJogger Videoquizzes*, Chapter 11

_____ ⇔ *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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