



13 Algebra: Exploring Polynomials

Chapter Pacing Guide

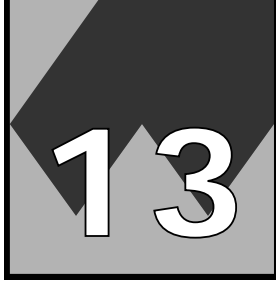
Please note that this pacing guide is based upon completing the entire text in 165 classes, approximately 50 minutes each. More time can be allotted for this chapter if you do not plan to teach the entire text.

Day (Standard)	Day (Honors)	Lesson	Title
	1	*Chapter Project	Theme: Basketball Hit or Miss
		*13-1A	<small>HANDS-ON LAB</small> Cooperative Learning Algebra Tiles
	1	13-1	Modeling Polynomials
	2	13-2	Simplifying Polynomials
	3	13-3	Adding Polynomials
	4	13-4	Subtracting Polynomials
		*13-5A	<small>HANDS-ON LAB</small> Cooperative Learning Modeling Products
	5	13-5	Multiplying Monomials and Polynomials
	6	13-6	Multiplying Binomials
	7	13-7A	<small>THINKING LAB</small> Problem Solving Guess and Check
	8	13-7	Factoring Polynomials
	9	Review: Study Guide and Assessment	
	10	Assessment: Chapter Test	

* Optional

Chapter Resources

Meeting Individual Needs <i>Investigations for the Special Education Student, Yard Sale</i> , pp. 35-38 <i>Spanish Study Guide and Assessment Study Guide and Practice Workbook</i>	Technology <i>Electronic Teacher's Classroom Resources (ETCR)</i> www.glencoe.com/sec/math/mac/mathnet
Interactive Mathematics: Activities and Investigations Units 9 and 13	Applications <i>Family Letters and Activities</i> , pp. 77-78 <i>Spanish Family Letters and Activities</i> , pp. 77-78



Chapter Project (pp. 558-559)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Convert percents to probabilities.
- _____ Create area models to describe probabilities.
- _____ Create algebraic models to describe probabilities.
- _____ State/local objectives: _____

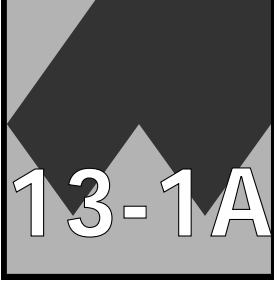
Theme: Solar System

- _____ Chapter Project, *SE*, p. 559
- _____ Chapter 13 Notes, *TWE*, p. 558
- _____ Question of the Day, *TWE*, p. 558
- _____ ⇨ *Investigations and Projects Masters*, pp. 65-68

Homework Assignments

- _____ p. 564, Working on the Chapter Project, Exercise 34
- _____ p. 585, Working on the Chapter Project, Exercise 21
- _____ p. 591, Working on the Chapter Project, Exercise 25
- _____ p. 595, Completing the Chapter Project, Alternative Assessment

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



Lesson Planning Guide (p. 560)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Make algebra tiles for algebraic expressions.
- _____ State/local objectives: _____

NCTM Standards:
2, 3, 6-9

MANAGEMENT

- _____ Getting Started, *TWE*, p. 560
- _____ ⇨ *Hands-On Lab Masters*, p. 29: algebra tiles
- _____ ⇨ *Teacher's Guide for Overhead Manipulative Resources*, Lesson 13-1A
- _____ ⇨ *Overhead Manipulative Resources*: algebra tiles

ASSESS

- _____ *TWE*, p. 560
- _____ ⇨ *Hands-On Lab Masters*, p. 66

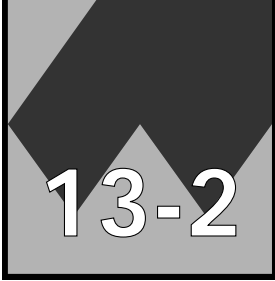
Class Activity (p. 560)

_____ All: 1-5

_____ Alternate Assignment: _____

- _____ Math Journal, *TWE*, p. 560

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



Lesson Planning Guide (pp. 565-569)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Simplify polynomials by using algebra tiles.
- _____ State/local objectives: _____

NCTM Standards: 1, 2, 6-9
South Carolina Math Curriculum Standards Grade 8: ALG II.A.1., ALG II.D.1.

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 565
- _____ ⇨ Transparency 13-2A
- _____ Motivating the Lesson, Problem Solving, *TWE*, p. 565
- _____ Multiple Learning Styles, Interpersonal, *TWE*, p. 565

2 TEACH

- _____ ⇨ Transparency 13-2B
- _____ Using the Mini-Lab, *TWE*, p. 566
- _____ ⇨ *Teacher's Guide for Overhead Manipulative Resources*, Mini-Lab for Lesson 13-2
- _____ In-Class Examples, *TWE*, pp. 566, 567
- _____ ⇨ *Study Guide Masters*, p. 101
- _____ Reteaching the Lesson, *TWE*, p. 567
- _____ Error Analysis, *TWE*, p. 567
- _____ ⇨ *CD-ROM Program*, Resource Lesson 13-2

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 567

Homework Assignments (pp. 568-569)

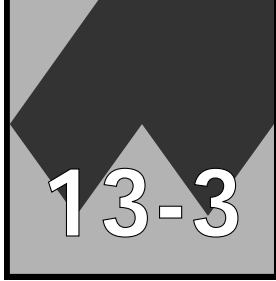
- _____ Core: 13-35 odd, 36-40
- _____ Enriched: 12-32 even, 33-40
- _____ Alternate Assignment: _____

- _____ Extra Practice, *SE*, p. 642
- _____ ⇨ *Practice Masters*, p. 101
- _____ ⇨ *Technology Masters*, Calculator Activity, p. 77
- _____ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 113

4 ASSESS

- _____ Closing Activity, Modeling, *TWE*, p. 569
- _____ ⇨ *Assessment and Evaluation Masters*, Quiz A, p. 351
- _____ Extending the Lesson, *TWE*, p. 569
- _____ ⇨ *Enrichment Masters*, p. 101

KEY	SE = Student Edition	TWE = Teacher's Wraparound Edition	⇨ = Other Program Components
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Lesson Planning Guide (pp. 570-572)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Add polynomials by using algebra tiles.
- _____ State/local objectives: _____

NCTM Standards: 1, 2, 6-9
South Carolina Math Curriculum Standards
Grade 8: ALG II.A.1.

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 570
- _____ ⇨ Transparency 13-3A
- _____ Motivating the Lesson, Problem Solving, *TWE*, p. 570
- _____ Multiple Learning Styles, Interpersonal, *TWE*, p. 570

2 TEACH

- _____ ⇨ Transparency 13-3B
- _____ Using the Mini-Lab, *TWE*, p. 570
- _____ ⇨ *Teacher's Guide for Overhead Manipulative Resources*, Mini-Lab for Lesson 13-3
- _____ In-Class Examples, *TWE*, p. 571
- _____ ⇨ *Study Guide Masters*, p. 102
- _____ Reteaching the Lesson, *TWE*, p. 571
- _____ Error Analysis, *TWE*, p. 571
- _____ ⇨ *CD-ROM Program*, Resource Lesson 13-3, Interactive Lesson 13-3
- _____ ⇨ *Interactive Mathematics Tools Software*

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 571

Homework Assignments (p. 572)

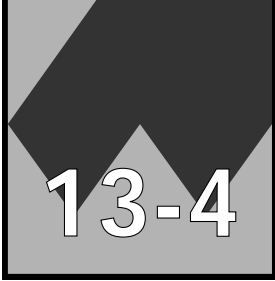
- _____ Core: 11-29 odd, 30-34
- _____ Enriched: 10-26 even, 28-34
- _____ Alternate Assignment: _____

- _____ Extra Practice, *SE*, p. 642
- _____ ⇨ *Practice Masters*, p. 102
- _____ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 114

4 ASSESS

- _____ Closing Activity, Writing, *TWE*, p. 572
- _____ Extending the Lesson, *TWE*, p. 572
- _____ ⇨ *Enrichment Masters*, p. 102

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Lesson Planning Guide (pp. 573-576)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Subtract polynomials by using algebra tiles.
- _____ State/local objectives: _____

NCTM Standards: 1, 2, 6-9
South Carolina Math Curriculum Standards Grade 8: ALG II.A.1.

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 573
- _____ ⇨ Transparency 13-4A
- _____ Motivating the Lesson, Hands-On-Activity, *TWE*, p. 573

2 TEACH

- _____ ⇨ Transparency 13-4B
- _____ Using the Mini-Lab, *TWE*, p. 574
- _____ ⇨ *Teacher's Guide for Overhead Manipulative Resources*, Mini-Lab for Lesson 13-4
- _____ In-Class Examples, *TWE*, p. 574
- _____ ⇨ *Study Guide Masters*, p. 103
- _____ Reteaching the Lesson, *TWE*, p. 574
- _____ Error Analysis, *TWE*, p. 574
- _____ ⇨ *CD-ROM Program*, Resource Lesson 13-4, Interactive Lesson 13-4
- _____ ⇨ *Interactive Mathematics Tools Software*

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, pp. 574-575

Homework Assignments (pp. 575-576)

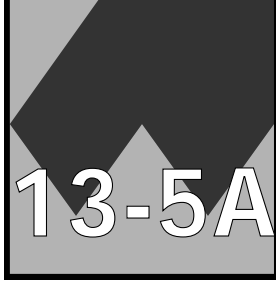
- | | |
|-----------------------------------|-----------------------------------|
| _____ Core: 11-27 odd, 28-32 | _____ Enriched: 10-24 even, 26-32 |
| _____ Alternate Assignment: _____ | |

- _____ Extra Practice, *SE*, p. 643
- _____ ⇨ *Practice Masters*, p. 103
- _____ ⇨ *Hands-On Lab Masters*, p. 80
- _____ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 115

4 ASSESS

- _____ Closing Activity, Writing, *TWE*, p. 575
- _____ ⇨ *Assessment and Evaluation Masters*, Mid-Chapter Test, p. 350
- _____ ⇨ *Assessment and Evaluation Masters*, Quiz B, p. 351
- _____ Extending the Lesson, *TWE*, p. 576
- _____ ⇨ *Enrichment Masters*, p. 103
- _____ Mid-Chapter Self Test, *SE*, p. 576

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Lesson Planning Guide (p. 577)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Model products by using algebra tiles.
- _____ State/local objectives: _____

NCTM Standards:
1, 2, 6-9

MANAGEMENT

- _____ Getting Started, *TWE*, p. 577
- _____ ⇨ *Hands-On Lab Masters*, p. 29: algebra tiles
- _____ ⇨ *Teacher's Guide for Overhead Manipulative Resources*, Lesson 13-5A
- _____ Manipulative Resources: algebra tiles, product mat

ASSESS

- _____ *TWE*, p. 577
- _____ ⇨ *Hands-On Lab Masters*, p. 67

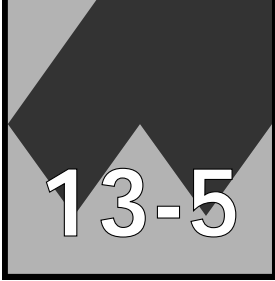
Class Activity (p. 577)

_____ All: 1-4

_____ Alternate Assignment: _____

- _____ Math Journal, *TWE*, p. 577

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Lesson Planning Guide (pp. 578-582)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Multiply monomials and polynomials.
- _____ State/local objectives: _____

NCTM Standards: 1, 2, 6-9
South Carolina Math Curriculum Standards Grade 8: NO II.B.1., ALG II.A.1.

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 578
- _____ ⇨ Transparency 13-5A
- _____ Motivating the Lesson, Communication, *TWE*, p. 578

2 TEACH

- _____ ⇨ Transparency 13-5B
- _____ Using the Mini-Lab, *TWE*, p. 578
- _____ ⇨ *Teacher's Guide for Overhead Manipulative Resources*, Mini-Lab for Lesson 13-5
- _____ In-Class Examples, *TWE*, p. 579
- _____ ⇨ *Study Guide Masters*, p. 104
- _____ Reteaching the Lesson, *TWE*, p. 580
- _____ ⇨ *CD-ROM Program*, Resource Lesson 13-5

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 580

Homework Assignments (pp. 580-581)

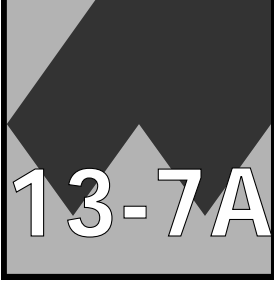
- _____ Core: 11-27 odd, 28-32 _____ Enriched: 10-24 even, 25-32
- _____ Alternate Assignment: _____

- _____ Extra Practice, *SE*, p. 643
- _____ ⇨ *Practice Masters*, p. 104
- _____ *School to Career Masters*, *SE*, p. 582
- _____ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 116

4 ASSESS

- _____ Closing Activity, Writing, *TWE*, p. 581
- _____ Extending the Lesson, *TWE*, p. 581
- _____ ⇨ *Enrichment Masters*, p. 104

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Lesson Planning Guide (pp. 586-587)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Solve problems by using guess and check.
- _____ State/local objectives: _____

NCTM Standards:
1, 2, 6-9

1 FOCUS

- _____ Getting Started, *TWE*, p. 586

2 TEACH

- _____ In-Class Example, *TWE*, p. 586
- _____ Reteaching the Lesson, *TWE*, p. 586

3 PRACTICE/APPLY

- _____ Check for Understanding, *TWE*, p. 587

Homework Assignments (p. 587)

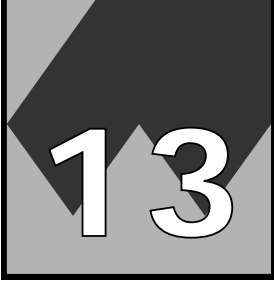
- _____ All: 4-14
- _____ Alternate Assignment: _____

- _____ Extra Practice, *SE*, p. 644
- _____ Mixed Problem Solving, *SE*, pp. 645-646

4 ASSESS

- _____ Closing Activity, Modeling, *TWE*, p. 587
- _____ Extending the Lesson, *TWE*, p. 587

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Review and Assessment (pp. 592-597)



Teacher's Name _____ Dates _____

Grade _____ Class _____

Review M Tu W Th F
Testing M Tu W Th F

- _____ Study Guide and Assessment, *SE*, pp. 592-595
- _____ Standardized Test Practice, *SE*, pp. 596-597
- _____ Chapter Test, *SE*, p. 659



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

Multiple-Choice Tests

Free-Response Tests

- _____ Form 1A, 1B, or 1C, pp. 337-342
- _____ Standardized Test Practice, pp. 353-354

- _____ 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*
- _____ ⇔  *South Carolina Parent and Student Study Guide Workbook*, p. 119
- _____ ⇔  *South Carolina PACT Workbook and Test Preparation, Grade 8*

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