

Lesson Planning Guide (pp. 474–479)



9-1

Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

NCTM Standards
1, 2, 6, 8, 9, 10

Recommended Pacing	
Regular Average	Day 1 of 14
Regular Advanced	Day 1 of 12
Block Average	Day 1 of 8
Block Advanced	Day 1 of 6

Objectives

- ___ Find prime factorizations of integers and monomials.
- ___ Find the greatest common factors of integers and monomials.
- ___ State/local objectives: _____

1 Focus

Materials/Resources Needed _____

- ___ 5-Minute Check Transparencies, Lesson 9-1
- ___ Mathematical Background, *TWE*, p. 472C
- ___ Prerequisite Skills Workbook, pp. 13–14
- ___ TeacherWorks CD-ROM, Louisiana Edition
- ___ StudentWorks CD-ROM, Louisiana Edition

2 Teach

- ___ In-Class Examples, *TWE*, pp. 475–476
- ___ Interactive Chalkboard CD-ROM, Lesson 9-1
- ___ algebra1.com/extra_examples/gee21
- ___ Guide to Daily Intervention, pp. 24–25
- ___ Study Guide and Intervention, *CRM*, pp. 523–524
- ___ Reading to Learn Mathematics, *CRM*, p. 527
- ___ Noteables™: Interactive Study Notebook with Foldables™, Louisiana Edition

3 Practice/Apply

- ___ Skills Practice, *CRM*, p. 525
- ___ Practice, *CRM*, p. 526
- ___ Extra Practice, *SE*, p. 839
- ___ Differentiated Instruction, *TWE*, p. 475
- ___ Parent and Student Study Guide Workbook, p. 68
- ___ Answer Key Transparencies, Lesson 9-1
- ___ algebra1.com/webquest

Assignment Guide, pp. 477–479, SE

	Objective 1	Objective 2	Other
Basic	21–27 odd, 33–39 odd	49–61 odd	29–31, 41– 47 odd, 68– 86
Average	21–27 odd, 33–39 odd	49–61 odd	29, 41–47 odd, 63–66, 68–86
Advanced	20–26 even, 32–38 even	48–60 even	28, 40–46 even, 62– 80 (optional: 81–86)

Alternate Assignment _____

4 Assess

- ___ Open-Ended Assessment, *TWE*, p. 479
- ___ Enrichment, *CRM*, p. 528
- ___ algebra1.com/self_check_quiz/gee21

___ Closing the Gap for Absent Students, pp. 18–19

KEY SE = Student Edition TWE = Teacher Wraparound Edition CRM = Chapter Resource Masters

Algebra Activity (p. 480)

A Preview of Lesson 9-2



9

Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

NCTM Standards
2, 6, 8, 10

Recommended Pacing	
Regular Average	Day 2 of 14
Regular Advanced	Day 2 of 12
Block Average	Day 1 of 8
Block Advanced	Day 1 of 6

Objectives

___ Use algebra tiles and a product mat to factor binomials.

___ State/local objectives: _____

Getting Started

Materials/Resources Needed algebra tiles, product mat

Teach

___ *Teaching Algebra with Manipulatives*, p. 156

___ *Glencoe Mathematics Classroom Manipulative Kit*

___ Teaching Strategy, *TWE*, p. 480

Assignment Guide, p. 480, SE

All 1-9

Alternate Assignment _____

Assess

___ Study Notebook, *TWE*, p. 480

Lesson Planning Guide (pp. 481–486)



9-2

Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

NCTM Standards
2, 6, 8, 9, 10

Recommended Pacing	
Regular Average	Day 3 of 14
Regular Advanced	Day 2 of 12
Block Average	Day 2 of 8
Block Advanced	Day 1 of 6

Objectives

- ___ Factor polynomials by using the Distributive Property.
- ___ Solve quadratic equations of the form $ax^2 + bx = 0$.
- ___ State/local objectives: _____

1 Focus

Materials/Resources Needed _____

- ___ Building on Prior Knowledge, *TWE*, p. 481
- ___ 5-Minute Check Transparencies, Lesson 9-2
- ___ Mathematical Background, *TWE*, p. 472C
- ___ Prerequisite Skills Workbook, pp. 13–14
- ___ TeacherWorks CD-ROM, Louisiana Edition
- ___ StudentWorks CD-ROM, Louisiana Edition

2 Teach

- ___ In-Class Examples, *TWE*, pp. 482–483
- ___ Teaching Algebra with Manipulatives, pp. 157–158
- ___ Interactive Chalkboard CD-ROM, Lesson 9-2
- ___ algebra1.com/extra_examples/gee21
- ___ algebra1.com/careers
- ___ Guide to Daily Intervention, pp. 24–25
- ___ Study Guide and Intervention, *CRM*, pp. 529–530
- ___ Reading to Learn Mathematics, *CRM*, p. 533
- ___ Noteables™: Interactive Study Notebook with Foldables™, Louisiana Edition

3 Practice/Apply

- ___ Skills Practice, *CRM*, p. 531
- ___ Practice, *CRM*, p. 532
- ___ Extra Practice, *SE*, p. 840
- ___ Differentiated Instruction, *TWE*, p. 483
- ___ School-to-Career Masters, p. 17
- ___ Parent and Student Study Guide Workbook, p. 69
- ___ Answer Key Transparencies, Lesson 9-2

Assignment Guide, pp. 484–486, SE

	Objective 1	Objective 2	Other
Basic	17–39 odd	49–59 odd	40–43, 47, 48, 62–81
Average	17–39 odd	49–59 odd	42, 43–47 odd, 61–81
Advanced	16–38 even	48–58 even	44–46, 60, 62–75 (optional: 76–81)

Alternate Assignment _____

4 Assess

- ___ Practice Quiz 1, *SE*, p. 486
- ___ Open-Ended Assessment, *TWE*, p. 486
- ___ Enrichment, *CRM*, p. 534
- ___ Assessment, Quiz, *CRM*, p. 573
- ___ algebra1.com/self_check_quiz/gee21

___ Closing the Gap for Absent Students, pp. 18–19

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Algebra Activity (pp. 487–488)

A Preview of Lesson 9-3



9

Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

NCTM Standards
2, 6, 8, 10

Recommended Pacing	
Regular Average	Day 4 of 14
Regular Advanced	Day 3 of 12
Block Average	Day 2 of 8
Block Advanced	Day 2 of 6

Objectives

___ Use algebra tiles to factor trinomials.

___ State/local objectives: _____

Getting Started

Materials/Resources Needed algebra tiles, product mat

Teach

___ *Teaching Algebra with Manipulatives*, p. 159

___ *Glencoe Mathematics Classroom Manipulative Kit*

___ *Teaching Strategy, TWE*, p. 487

Assignment Guide, p. 488, SE

All | 1–8

Alternate Assignment _____

Assess

___ Study Notebook, *TWE*, p. 488

Lesson Planning Guide (pp. 489–494)



9-3

Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

NCTM Standards
2, 6, 8, 9, 10

Recommended Pacing	
Regular Average	Days 5 & 6 of 14
Regular Advanced	Day 4 of 12
Block Average	Days 3 & 4 of 8
Block Advanced	Day 2 of 6

Objectives

- ___ Factor trinomials of the form $x^2 + bx + c$.
- ___ Solve equations of the form $x^2 + bx + c = 0$.
- ___ State/local objectives: _____

1 Focus

Materials/Resources Needed _____

- ___ *5-Minute Check Transparencies*, Lesson 9-3
- ___ Mathematical Background, *TWE*, p. 472D
- ___ *TeacherWorks CD-ROM, Louisiana Edition*
- ___ *StudentWorks CD-ROM, Louisiana Edition*

2 Teach

- ___ In-Class Examples, *TWE*, pp. 490–491
- ___ *Teaching Algebra with Manipulatives*, pp. 160–161
- ___ *Interactive Chalkboard CD-ROM*, Lesson 9-3
- ___ algebra1.com/extra_examples/gee21
- ___ *Guide to Daily Intervention*, pp. 24–25
- ___ Daily Intervention, *TWE*, p. 492
- ___ Study Guide and Intervention, *CRM*, pp. 535–536
- ___ Reading to Learn Mathematics, *CRM*, p. 539
- ___ *Noteables™: Interactive Study Notebook with Foldables™, Louisiana Edition*

3 Practice/Apply

- ___ Skills Practice, *CRM*, p. 537
- ___ Practice, *CRM*, p. 538
- ___ Extra Practice, *SE*, p. 840
- ___ Differentiated Instruction, *TWE*, p. 490
- ___ *Parent and Student Study Guide Workbook*, p. 70
- ___ *Answer Key Transparencies*, Lesson 9-3
- ___ *AlgePASS CD-ROM*, Lessons 24 & 25

Assignment Guide, pp. 492–494, SE

	Objective 1	Objective 2	Other
Basic	17–33 odd	37–51 odd	55, 57–60, 63–65, 70–83
Average	17–33 odd	37–53 odd	35, 55, 57–60, 63–65, 70–83 (optional: 66–69)
Advanced	18–34 even	38–52 even	36, 54, 56–77 (optional: 78–83)

Alternate Assignment _____

4 Assess

- ___ Open-Ended Assessment, *TWE*, p. 494
- ___ Enrichment, *CRM*, p. 540
- ___ Assessment, Mid-Chapter Test, *CRM*, p. 575
- ___ Assessment, Quiz, *CRM*, p. 573
- ___ algebra1.com/self_check_quiz/gee21

___ *Closing the Gap for Absent Students*, pp. 18–19

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Lesson Planning Guide (pp. 495–500)



9-4

Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

NCTM Standards
2, 6, 8, 9, 10

Recommended Pacing	
Regular Average	Days 7 & 8 of 14
Regular Advanced	Days 5 & 6 of 12
Block Average	Days 4 & 5 of 8
Block Advanced	Day 3 of 6

Objectives

- ___ Factor trinomials of the form $ax^2 + bx + c$.
- ___ Solve equations of the form $ax^2 + bx + c = 0$.
- ___ State/local objectives: _____

1 Focus

Materials/Resources Needed _____

- ___ 5-Minute Check Transparencies, Lesson 9-4
- ___ Mathematical Background, *TWE*, p. 472D
- ___ Prerequisite Skills Workbook, pp. 13–14
- ___ TeacherWorks CD-ROM, Louisiana Edition
- ___ StudentWorks CD-ROM, Louisiana Edition

2 Teach

- ___ In-Class Examples, *TWE*, pp. 496–497
- ___ Teaching Algebra with Manipulatives, pp. 162–164
- ___ Interactive Chalkboard CD-ROM, Lesson 9-4
- ___ algebra1.com/extra_examples/gee21
- ___ Guide to Daily Intervention, pp. 24–25
- ___ Daily Intervention, *TWE*, pp. 497, 498
- ___ Study Guide and Intervention, *CRM*, pp. 541–542
- ___ Reading to Learn Mathematics, *CRM*, p. 545
- ___ Noteables™: Interactive Study Notebook with Foldables™, Louisiana Edition

3 Practice/Apply

- ___ Skills Practice, *CRM*, p. 543
- ___ Practice, *CRM*, p. 544
- ___ Extra Practice, *SE*, p. 840
- ___ Differentiated Instruction, *TWE*, p. 496
- ___ Graphing Calculator and Spreadsheet Masters, p. 39
- ___ Parent and Student Study Guide Workbook, p. 71
- ___ Answer Key Transparencies, Lesson 9-4
- ___ AlgePASS CD-ROM, Lesson 26

Assignment Guide, pp. 498–500, SE

	Objective 1	Objective 2	Other
Basic	15–29 odd, 33	35–43 odd	49, 50, 53–70
Average	15–33 odd	35–47 odd	49–51, 53–70
Advanced	14–34 even	36–48 even	52–62 (optional: 63–70)
All	Practice Quiz 2 (1–10)		
Alternate Assignment _____			

4 Assess

- ___ Practice Quiz 2, *SE*, p. 500
- ___ Open-Ended Assessment, *TWE*, p. 500
- ___ Enrichment, *CRM*, p. 546
- ___ algebra1.com/self_check_quiz/gee21

___ Closing the Gap for Absent Students, pp. 18–19

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Lesson Planning Guide (pp. 501–507)



9-5

Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

NCTM Standards
2, 3, 6, 8, 9, 10

Recommended Pacing	
Regular Average	Days 9 & 10 of 14
Regular Advanced	Days 7 & 8 of 12
Block Average	Days 5 & 6 of 8
Block Advanced	Day 4 of 6

Objectives

- ___ Factor binomials that are the differences of squares.
- ___ Solve equations involving the differences of squares.
- ___ State/local objectives: _____

1 Focus

Materials/Resources Needed _____

- ___ Building on Prior Knowledge, *TWE*, p. 501
- ___ 5-Minute Check Transparencies, Lesson 9-5
- ___ Mathematical Background, *TWE*, p. 472D
- ___ Prerequisite Skills Workbook, pp. 13–14
- ___ TeacherWorks CD-ROM, Louisiana Edition
- ___ StudentWorks CD-ROM, Louisiana Edition

2 Teach

- ___ In-Class Examples, *TWE*, pp. 502–503
- ___ Teaching Algebra with Manipulatives, pp. 165–167
- ___ Interactive Chalkboard CD-ROM, Lesson 9-5
- ___ algebra1.com/extra_examples/gee21
- ___ Guide to Daily Intervention, pp. 24–25
- ___ Daily Intervention, *TWE*, p. 504
- ___ Study Guide and Intervention, *CRM*, pp. 547–548
- ___ Reading to Learn Mathematics, *CRM*, p. 551
- ___ Reading Mathematics, *SE*, p. 507
- ___ Noteables™: Interactive Study Notebook with Foldables™, Louisiana Edition

3 Practice/Apply

- ___ Skills Practice, *CRM*, p. 549
- ___ Practice, *CRM*, p. 550
- ___ Extra Practice, *SE*, p. 841
- ___ Differentiated Instruction, *TWE*, p. 504
- ___ School-to-Career Masters, p. 18
- ___ Science and Mathematics Lab Manual, pp. 73–78
- ___ Graphing Calculator and Spreadsheet Masters, p. 40
- ___ Parent and Student Study Guide Workbook, p. 72
- ___ Answer Key Transparencies, Lesson 9-5
- ___ WebQuest and Projects Resources, p. 53

Assignment Guide, pp. 504–506, SE

	Objective 1	Objective 2	Other
Basic	17–31 odd	35–43 odd	46, 47, 49 51–70
Average	17–33 odd	35–43 odd	46, 47, 49, 51–70
Advanced	16–32 even	34–44 even	46–50 even, 51–64 (optional: 65–70)
Reading Mathematics	1–4		
Alternate Assignment _____			

4 Assess

- ___ Open-Ended Assessment, *TWE*, p. 506
- ___ Enrichment, *CRM*, p. 552
- ___ Assessment, Quiz, *CRM*, p. 574
- ___ algebra1.com/self_check_quiz/gee21

___ Closing the Gap for Absent Students, pp. 18–19

KEY SE = Student Edition TWE = Teacher Wraparound Edition CRM = Chapter Resource Masters

Lesson Planning Guide (pp. 508–514)



9-6

Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

NCTM Standards
2, 6, 8, 9, 10

Recommended Pacing	
Regular Average	Days 11 & 12 of 14
Regular Advanced	Days 9 & 10 of 12
Block Average	Days 6 & 7 of 8
Block Advanced	Day 5 of 6

Objectives

- ___ Factor perfect square trinomials.
- ___ Solve equations involving perfect squares.
- ___ State/local objectives: _____

1 Focus

Materials/Resources Needed _____

- ___ Building on Prior Knowledge, *TWE*, p. 509
- ___ 5-Minute Check Transparencies, Lesson 9-6
- ___ Mathematical Background, *TWE*, p. 472D
- ___ *TeacherWorks CD-ROM, Louisiana Edition*
- ___ *StudentWorks CD-ROM, Louisiana Edition*

2 Teach

- ___ In-Class Examples, *TWE*, pp. 509–511
- ___ *Teaching Algebra with Manipulatives*, pp. 168–172
- ___ *Interactive Chalkboard CD-ROM*, Lesson 9-6
- ___ algebra1.com/extra_examples/gee21
- ___ *Guide to Daily Intervention*, pp. 24–25
- ___ Study Guide and Intervention, *CRM*, pp. 553–554
- ___ Reading to Learn Mathematics, *CRM*, p. 557
- ___ *Multimedia Applications Masters*
- ___ *Noteables™: Interactive Study Notebook with Foldables™, Louisiana Edition*

3 Practice/Apply

- ___ Skills Practice, *CRM*, p. 555
- ___ Practice, *CRM*, p. 556
- ___ Extra Practice, *SE*, p. 841
- ___ Differentiated Instruction, *TWE*, p. 510
- ___ *Parent and Student Study Guide Workbook*, p. 73
- ___ *Real-World Application Transparencies and Masters*
- ___ *Answer Key Transparencies*, Lesson 9-6
- ___ *AlgePASS CD-ROM*, Lesson 27
- ___ *WebQuest and Projects Resources*, p. 53

Assignment Guide, pp. 512–514, SE

	Objective 1	Objective 2	Other
Basic	17–21 odd	43–47 odd	25–39 odd, 49–53 odd, 55, 56, 60–80
Average	17–21 odd	43–47 odd	23–41 odd, 49–53 odd, 55–59, 60–80
Advanced	18–22 even	44–48 even	24–42 even, 50–54 even, 57, 58, 60–80
Alternate Assignment _____			

4 Assess

- ___ Open-Ended Assessment, *TWE*, p. 514
- ___ Enrichment, *CRM*, p. 558
- ___ Assessment, Quiz, *CRM*, p. 574
- ___ algebra1.com/self_check_quiz/gee21

___ *Closing the Gap for Absent Students*, pp. 18–19

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Review and Testing (pp. 515–521)



9

Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Recommended Pacing	
Regular Average	Days 13 & 14 of 14
Regular Advanced	Days 11 & 12 of 12
Block Average	Days 7 & 8 of 8
Block Advanced	Day 6 of 6

Assess

- ___ *Parent and Student Study Guide Workbook*, p. 74
- ___ Vocabulary and Concept Check, *SE*, p. 515
- ___ Vocabulary Test, *CRM*, p. 572
- ___ Lesson-by-Lesson Review, *SE*, pp. 515–518
- ___ Practice Test, *SE*, p. 519
- ___ Chapter 9 Tests, *CRM*, pp. 559–570
- ___ Open-Ended Assessment, *CRM*, p. 571
- ___ Standardized Test Practice, *SE*, pp. 520–521
- ___ Standardized Test Practice, *CRM*, pp. 577–578
- ___ Cumulative Review, *CRM*, p. 576
- ___ *Vocabulary PuzzleMaker CD-ROM*
- ___ algebra1.com/vocabulary_review
- ___ algebra1.com/chapter_test/gee21
- ___ algebra1.com/standardized_test/gee21
- ___ *MindJogger Videoquizzes VHS*

Other Assessment Materials

- *ExamView® Pro CD-ROM*
- *Mastering the GEE 21: Diagnose, Prescribe, and Practice Workbook for Grade 9*
- *Preparing for LEAP 21 and GEE 21 CD-ROM*
- *GEE 21 Intervention Transparencies for Grade 9*

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