

13-1 Lesson Planning Guide (pp. 664–668)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Materials/resources needed: _____

Objectives

- _____ 13-1: Find and use squares and square roots.
- _____ **South Carolina Math Curriculum Standards, Grade 8: NO II.C.1.**
- _____ State/local objectives: _____

NCTM Curriculum Standards: 1, 2, 4, 6-10

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 664
- _____ ⇨ Transparency 13-1A
- _____ Motivating the Lesson, Questioning, *TWE*, p. 665

2 TEACH

- _____ In-Class Examples, *TWE*, pp. 665, 666
- _____ ⇨ Transparency 13-1B
- _____ Reteaching, Using Models, *TWE*, p. 666
- _____ ⇨ Study Guide Masters, p. 108
- _____ Alternative Learning Styles, Kinesthetic, *TWE*, p. 664
- _____ ⇨ Interactive Mathematics Tools Software, 13-1

3 PRACTICE/APPLY

- _____ Checking Your Understanding, *SE*, p. 666

Homework Assignments

- _____ Core: 15–45 odd, 47–54
- _____ Enriched: 16–40 even, 42–54
- _____ Alternate Assignment: _____

- _____ Extra Practice, *SE*, p. 771
- _____ ⇨ Practice Masters, p. 108
- _____ ⇨ Tech Prep Applications Masters, p. 25
- _____ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 120

4 ASSESS

- _____ Closing Activity, Speaking, *TWE*, p. 668
- _____ Extension, Using Formulas, *TWE*, p. 667
- _____ ⇨ Enrichment Masters, p. 108
- _____ ⇨ Activity Masters, p. 46
- _____ ⇨ Group Activity Card 13-1

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

13-2 Lesson Planning Guide (pp. 669–671)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Materials/resources needed: _____

Objectives

_____ 13-2: Use Venn Diagrams to solve problems.

_____ State/local objectives: _____

NCTM Curriculum Standards: 1, 4, 6-10

1 FOCUS

_____ 5-Minute Check, *TWE*, p. 669

_____ ⇨ Transparency 13-2A

_____ Motivating the Lesson, Hands-On Activity, *TWE*, p. 669

2 TEACH

_____ In-Class Examples, *TWE*, p. 670

_____ ⇨ Transparency 13-2B

_____ Reteaching, Using Data, *TWE*, p. 670

_____ ⇨ Study Guide Masters, p. 109

_____ Alternative Teaching Strategies, Reading Mathematics, *TWE*, p. 669

_____ ⇨ Math Lab and Modeling Math Masters, p. 88

3 PRACTICE/APPLY

_____ Checking Your Understanding, *SE*, p. 670

Homework Assignments

_____ Core: 5–13 odd, 14–18

_____ Enriched: 6–10 even, 12–18

_____ Alternate Assignment: _____

_____ Extra Practice, *SE*, p. 771

_____ ⇨ Practice Masters, p. 109

_____ ⇨  *South Carolina Parent and Student Study Guide Workbook*, p. 121

4 ASSESS

_____ Closing Activity, Writing, *TWE*, p. 671

_____ ⇨ Assessment and Evaluation Masters, Quiz A, p. 351

_____ Extension, Using Data, *TWE*, p. 671

_____ ⇨ Enrichment Masters, p. 109

_____ ⇨ Group Activity Card 13-2

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13-3 Lesson Planning Guide (pp. 672–675)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Materials/resources needed: _____

Objectives

- _____ 13-3.1: Identify numbers in the real number system.
- _____ 13-3.2: Solve equations by finding square roots.
- _____ **South Carolina Math Curriculum Standards, Grade 8: NO II.C.1., ALG II.D.2., ALG III.A.1., MEA II.F.1.**
- _____ State/local objectives: _____

NCTM Curriculum Standards: 1, 2, 4, 6-10

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 672
- _____ ⇨ Transparency 13-3A
- _____ Motivating the Lesson, Questioning, *TWE*, p. 672

2 TEACH

- _____ In-Class Examples, *TWE*, pp. 673, 674
- _____ ⇨ Transparency 13-3B
- _____ Reteaching, Using Lists, *TWE*, p. 674
- _____ ⇨ Study Guide Masters, p. 110
- _____ Cooperative Learning, Categorizing, *TWE*, p. 673

3 PRACTICE/APPLY

- _____ Checking Your Understanding, *SE*, p. 674

Homework Assignments

- _____ Core: 13–45 odd, 46–52
- _____ Enriched: 14–40 even, 41–52
- _____ Alternate Assignment: _____

- _____ Extra Practice, *SE*, p. 771
- _____ ⇨ Practice Masters, p. 110
- _____ ⇨  *South Carolina Parent and Student Study Guide Workbook*, p. 122

4 ASSESS

- _____ Closing Activity, Speaking, *TWE*, p. 675
- _____ Extension, Using Concept Maps, *TWE*, p. 675
- _____ ⇨ Enrichment Masters, p. 110
- _____ ⇨ Group Activity Card 13-3

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13-4 Lesson Planning Guide (pp. 676–681)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Materials/resources needed: _____

Objectives

- _____ 13-4.1: Use the Pythagorean theorem to find the length of the side of a right triangle.
- _____ 13-4.2: Use the Pythagorean theorem to solve problems.
- _____ **South Carolina Math Curriculum Standards, Grade 8: NO II.C.1., ALG II.D.2., GEO I.C.1., GEO I.C.2., GEO I.C.3., MEA II.F.1.**
- _____ State/local objectives: _____

NCTM Curriculum Standards: 1, 2, 4, 6-10

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 676
- _____ ⇨ Transparency 13-4A
- _____ Motivating the Lesson, Situational Problem, *TWE*, p. 677

2 TEACH


- _____ In-Class Examples, *TWE*, pp. 677, 678
- _____ ⇨ Transparency 13-4B
- _____ Reteaching, Using Models, *TWE*, p. 679
- _____ ⇨ Study Guide Masters, p. 111
- _____ Alternative Teaching Strategies, Student Diversity, *TWE* p. 677
- _____ ⇨ Math Lab and Modeling Math Masters, pp. 73, 74
- _____ ⇨ Interactive Mathematics Tools Software, 13-4
- _____ Math Lab 13-4B, *SE*, p. 682

3 PRACTICE/APPLY

- _____ Checking Your Understanding, *SE*, p. 679
- _____ Error Analysis, *TWE*, p. 680

Homework Assignments

- _____ Core: 17–45 odd, 47–54
- _____ Enriched: 16–42 even, 43–54
- _____ Alternate Assignment: _____

- _____ Extra Practice, *SE*, p. 771
- _____ ⇨ Practice Masters, p. 111
- _____ ⇨ Tech Prep Applications Masters, p. 26
- _____ ⇨  *South Carolina Parent and Student Study Guide Workbook*, p. 123

4 ASSESS

- _____ Closing Activity, Modeling, *TWE*, p. 681
- _____ Self Test, *SE*, p. 681
- _____ ⇨ Assessment and Evaluation Masters, Quiz B, p. 351
- _____ ⇨ Assessment and Evaluation Masters, Mid-Chapter Test, p. 350
- _____ Extension, Using Writing, *TWE*, p. 680
- _____ ⇨ Enrichment Masters, p. 111
- _____ ⇨ Activity Masters, pp. 13, 47
- _____ ⇨ Multicultural Activity Masters, p. 25
- _____ ⇨ Group Activity Card 13-4

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13-5 Lesson Planning Guide (pp. 683–686)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Materials/resources needed: _____

Objectives

- _____ 13-5: Find missing measures in 30° – 60° and 45° – 45° triangles.
- _____ **South Carolina Math Curriculum Standards, Grade 8: ALG II.D.2.**
- _____ State/local objectives: _____

NCTM Curriculum Standards: 1, 2, 4, 6-10

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 683
- _____ ⇨ Transparency 13-5A
- _____ Motivating the Lesson, Questioning, *TWE*, p. 683

2 TEACH


- _____ In-Class Examples, *TWE*, p. 684
- _____ ⇨ Transparency 13-5B
- _____ Reteaching, Using Diagrams, *TWE*, p. 684
- _____ ⇨ Study Guide Masters, p. 112
- _____ Alternative Learning Styles, Visual, *TWE*, p. 683

3 PRACTICE/APPLY

- _____ Checking Your Understanding, *SE*, p. 685

Homework Assignments

- _____ Core: 11–35 odd, 36–37, 39–45
- _____ Enriched: 12–34 even, 36–45
- _____ Alternate Assignment: _____

- _____ Extra Practice, *SE*, p. 772
- _____ ⇨ Practice Masters, p. 112
- _____ ⇨ Real-World Applications, 29
- _____ ⇨  *South Carolina Parent and Student Study Guide Workbook*, p. 124

4 ASSESS

- _____ Closing Activity, Writing, *TWE*, p. 686
- _____ Extension, Using Technology, *TWE*, p. 686
- _____ ⇨ Enrichment Masters, p. 112
- _____ ⇨ Group Activity Card 13-5

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13-6 Lesson Planning Guide (pp. 688–692)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Materials/resources needed: _____

Objectives

_____ 13-6: Find missing sides and angles of triangles using the sine, cosine, and tangent ratios.

_____ State/local objectives: _____

NCTM Curriculum Standards: 1, 2, 4, 6-10

1 FOCUS

_____ 5-Minute Check, *TWE*, p. 688

_____ ⇨ Transparency 13-6A

_____ Motivating the Lesson, Situational Problem, *TWE*, p. 689

2 TEACH

_____ Math Lab 13-6A, *SE*, p. 687

_____ In-Class Examples, *TWE*, pp. 689, 690

_____ ⇨ Transparency 13-6B

_____ Reteaching, Using Models, *TWE*, p. 690

_____ ⇨ Study Guide Masters, p. 113

_____ Alternative Learning Styles, Auditory, *TWE*, p. 688

_____ ⇨ Interactive Mathematics Tools Software, 13-6.1, 13-6.2

_____ Math Lab 13-6B, *SE*, p. 693

3 PRACTICE/APPLY

_____ Checking Your Understanding, *SE*, p. 690

_____ Error Analysis, *TWE*, p. 691

Homework Assignments

_____ Core: 21–43 odd, 44–45, 47–54


_____ Enriched: 20–42 even, 44–54

_____ Alternate Assignment: _____

_____ Extra Practice, *SE*, p. 772

_____ ⇨ Practice Masters, p. 113

_____ ⇨ Real-World Applications, 30

_____ ⇨  *South Carolina Parent and Student Study Guide Workbook*, p. 125

4 ASSESS

_____ Closing Activity, Writing, *TWE*, p. 692

_____ ⇨ Assessment and Evaluation Masters, Quiz C, p. 352

_____ Extension, Connections, *TWE*, p. 691

_____ ⇨ Enrichment Masters, p. 113

_____ ⇨ Group Activity Card 13-6

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13-7 Lesson Planning Guide (pp. 694–697)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Materials/resources needed: _____

Objectives

_____ 13-7: Solve problems by using the trigonometric ratios.

_____ State/local objectives: _____

NCTM Curriculum Standards: 1, 2, 4, 6-10

1 FOCUS

_____ 5-Minute Check, *TWE*, p. 694

_____ ⇨ Transparency 13-7A

_____ Motivating the Lesson, Questioning,

TWE, p. 694

2 TEACH

_____ In-Class Examples, *TWE*, p. 695

_____ ⇨ Transparency 13-7B

_____ Reteaching, Using Diagrams, *TWE*, p. 696

_____ ⇨ Study Guide Masters, p. 114

_____ Cooperative Learning, Brainstorming,

TWE, p. 695

_____ ⇨ Graphing Calculator Masters, p. 13

3 PRACTICE/APPLY

_____ Checking Your Understanding, *SE*, p. 696

Homework Assignments

_____ Core: 9–25 odd, 27–31

_____ Enriched: 8–22 even, 23–31

_____ Alternate Assignment: _____

_____ Extra Practice, *SE*, p. 772

_____ ⇨ Practice Masters, p. 114

_____ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 126

4 ASSESS

_____ Closing Activity, Writing, *TWE*, p. 697

_____ Assessment and Evaluation Masters,

Quiz D, p. 352

_____ Extension, Working Backward, *TWE*, p. 697

_____ ⇨ Enrichment Masters, p. 114

_____ ⇨ Activity Masters, p. 27

_____ ⇨ Multicultural Activity Masters, p. 26

_____ ⇨ Group Activity Card 13-7

Review and Assessment Options

_____ Chapter 13 Highlights, *SE*, p. 699

_____ Chapter 13 Study Guide and Assessment,
SE, pp. 700-702

_____ Chapter 13 Alternative Assessment, *SE*, p. 703

_____ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 127

_____ ⇨ *South Carolina PACT Workbook and Test Preparation, Grade 8*

_____ ⇨ Assessment and Evaluation Masters, Chapter 13 Tests, pp. 337–348; Performance

Assessment, p. 349; Standardized Test Practice, p. 353; Cumulative Review, pp. 354–355

_____ Chapter 13 Test, *SE*, p. 786

_____ ⇨ Test and Review Software

_____ ⇨ *MindJogger Videoquizzes*, Chapter 13

_____ ⇨ *State Test Preparation CD-ROM*

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