

12-1 Lesson Planning Guide (pp. 612–617)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Materials/resources needed: _____

Objectives

_____ 12-1: Find areas of parallelograms, triangles, and trapezoids.

**South Carolina Math Curriculum Standards, Grade 8: NO I.A.1., NO III.A.1., NO III.B.1.,
MEA II.C.1., MEA II.C.2., MEA II.F.1.**

_____ State/local objectives: _____

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

1 FOCUS

_____ 5-Minute Check, *TWE*, p. 612

_____ ⇔ Transparency 12-1A

_____ Motivating the Lesson, Hands-On Activity, *TWE*, p. 613

2 TEACH

_____ Math Lab 12-1A, *SE*, pp. 610–611

_____ In-Class Examples, *TWE*, pp. 613, 614

_____ ⇔ Transparency 12-1B

_____ Reteaching, Using Manipulatives, *TWE*, p. 615

_____ ⇔ Study Guide Masters, p. 100

_____ Cooperative Learning, Round Table, *TWE*, p. 614

_____ ⇔ Math Lab and Modeling Math Masters, p. 71

_____ ⇔ Graphing Calculator Masters, p. 12

_____ ⇔ Interactive Mathematics Tools Software, 12-1.1, 12-1.2

_____ Math Lab 12-1B, *SE*, p. 618

3 PRACTICE/APPLY

_____ Checking Your Understanding, *SE*, p. 615

_____ Error Analysis, *TWE*, p. 616

Homework Assignments


_____ Core: 13–25 odd, 28, 29, 31, 33–37

_____ Enriched: 12–26 even, 27–37

_____ Alternate Assignment: _____

_____ Extra Practice, *SE*, p. 769

_____ ⇔ Practice Masters, p. 100

_____ ⇔  *South Carolina Parent and Student Study Guide Workbook*, p. 111

4 ASSESS

_____ Closing Activity, Speaking, *TWE*, p. 617

_____ Extension, Using Diagrams, *TWE*, p. 617

_____ ⇔ Enrichment Masters, p. 100

_____ ⇔ Activity Masters, p. 45

_____ ⇔ Group Activity Card 12-1

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

12-2 Lesson Planning Guide (pp. 619–622)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Materials/resources needed: _____

Objectives

_____ 12-2: Find areas of circles.

_____ **South Carolina Math Curriculum Standards, Grade 8: NO I.A.1., NO III.A.1., NO III.B.1., NO III.C.1., MEA II.C.1., MEA II.F.1.**

_____ State/local objectives: _____

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

1 FOCUS

_____ 5-Minute Check, *TWE*, p. 619

_____ ⇨ Transparency 12-2A

_____ Motivating the Lesson, Questioning, *TWE*, p. 619

2 TEACH

_____ In-Class Examples, *TWE*, p. 620

_____ ⇨ Transparency 12-2B

_____ Reteaching, Using Modeling, *TWE*, p. 621

_____ ⇨ Study Guide Masters, p. 101

_____ Alternative Teaching Strategies, Student Diversity, *TWE*, p. 619

_____ ⇨ Math Lab and Modeling Math Masters, p. 87

_____ ⇨ Interactive Mathematics Tools Software, 12-2

3 PRACTICE/APPLY

_____ Checking Your Understanding, *SE*, p. 621

Homework Assignments

_____ Core: 9–19 odd, 20, 21, 23, 25–30


_____ Enriched: 8–18 even, 20–30

_____ Alternate Assignment: _____

_____ Extra Practice, *SE*, p. 769

_____ ⇨ Practice Masters, p. 101

_____ ⇨ Real-World Applications, 27

_____ ⇨  *South Carolina Parent and Student Study Guide Workbook*, p. 112

4 ASSESS

_____ Closing Activity, Writing, *TWE*, p. 622

_____ ⇨ Assessment and Evaluation Masters, Quiz A, p. 323

_____ Extension, Using Constructions, *TWE*, p. 622

_____ ⇨ Enrichment Masters, p. 101

_____ ⇨ Activity Masters, p. 26

_____ ⇨ Multicultural Activity Masters, p. 23

_____ ⇨ Group Activity Card 12-2

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

12-3 Lesson Planning Guide (pp. 623–627)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Materials/resources needed: _____

Objectives

- _____ 12-3: Find probabilities using area models.
- _____ **South Carolina Math Curriculum Standards, Grade 8: GEO IV.D.1., DAP IV.B.1.**
- _____ State/local objectives: _____

NCTM Curriculum Standards: 1, 2, 4-10

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 623
- _____ ⇔ Transparency 12-3A
- _____ Motivating the Lesson, Questioning, *TWE*, p. 623

2 TEACH


- _____ In-Class Examples, *TWE*, p. 624
- _____ ⇔ Transparency 12-3B
- _____ Reteaching, Using Drawings, *TWE*, p. 625
- _____ ⇔ Study Guide Masters, p. 102
- _____ Alternative Learning Styles, Auditory, *TWE*, p. 623
- _____ Math Lab 12-3B, *SE*, p. 628

3 PRACTICE/APPLY

- _____ Checking Your Understanding, *SE*, p. 625

Homework Assignments

- _____ Core: 9–19 odd, 21–25
- _____ Enriched: 10–16 even, 17–25
- _____ Alternate Assignment: _____

- _____ Extra Practice, *SE*, p. 769
- _____ ⇔ Practice Masters, p. 102
- _____ ⇔  *South Carolina Parent and Student Study Guide Workbook*, p. 113

4 ASSESS

- _____ Closing Activity, Modeling, *TWE*, p. 627
- _____ Extension, Using Logical Reasoning, *TWE*, p. 626
- _____ ⇔ Enrichment Masters, p. 102
- _____ ⇔ Group Activity Card 12-3

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12-4 Lesson Planning Guide (pp. 629–631)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Materials/resources needed: _____

Objectives

- _____ 12-4: Solve problems using a model or a drawing.
- _____ **South Carolina Math Curriculum Standards, Grade 8: NO I.A.1., NO III.A.1., NO III.B.1., NO III.C.1., GEO IV.B.1., GEO IV.D.1., MEA II.C.1., DAP IV.B.1.**
- _____ State/local objectives: _____

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

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 629
- _____ ⇨ Transparency 12-4A
- _____ Motivating the Lesson, Situational Problem, *TWE*, p. 630

2 TEACH


- _____ In-Class Examples, *TWE*, p. 630
- _____ ⇨ Transparency 12-4B
- _____ Reteaching, Making a Drawing, *TWE*, p. 630
- _____ ⇨ Study Guide Masters, p. 103
- _____ ⇨ Math Lab and Modeling Math Masters, p. 72

3 PRACTICE/APPLY

- _____ Checking Your Understanding, *SE*, p. 630

Homework Assignments

- _____ Core: 7–15 odd, 16–21
- _____ Enriched: 6–14 even, 16–21
- _____ Alternate Assignment: _____

- _____ Extra Practice, *SE*, p. 770
- _____ ⇨ Practice Masters, p. 103
- _____ ⇨ Real-World Applications, 28
- _____ ⇨  *South Carolina Parent and Student Study Guide Workbook*, p. 114

4 ASSESS

- _____ Closing Activity, Modeling, *TWE*, p. 631
- _____ ⇨ Assessment and Evaluation Masters, Quiz B, p. 323
- _____ ⇨ Assessment and Evaluation Masters, Mid-Chapter Test, p. 322
- _____ Extension, Using Diagrams, *TWE*, p. 631
- _____ ⇨ Enrichment Masters, p. 103
- _____ ⇨ Group Activity Card 12-4

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12-5 Lesson Planning Guide (pp. 632–637)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Materials/resources needed: _____

Objectives

- _____ 12-5: Find surface areas of triangular and rectangular prisms and circular cylinders.
- _____ **South Carolina Math Curriculum Standards, Grade 8: NO I.A.1., NO III.A.1., NO III.B.1., NO III.C.1., ALG III.A.1., GEO IV.B.1., MEA II.D.1., MEA II.F.1.**
- _____ State/local objectives: _____

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

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 632
- _____ ⇨ Transparency 12-5A
- _____ Motivating the Lesson, Hands-On Activity, *TWE*, p. 633

2 TEACH


- _____ In-Class Examples, *TWE*, pp 633, 634
- _____ ⇨ Transparency 12-5B
- _____ Reteaching, Using Diagrams, *TWE*, p. 635
- _____ ⇨ Study Guide Masters, p. 104
- _____ Alternative Learning Styles, Kinesthetic, *TWE*, p. 632

3 PRACTICE/APPLY

- _____ Checking Your Understanding, *SE*, p. 635
- _____ Error Analysis, *TWE*, p. 636

Homework Assignments

- _____ Core: 11–29 odd, 30–34
- _____ Enriched: 12–22 even, 23–34
- _____ Alternate Assignment: _____

- _____ Extra Practice, *SE*, p. 770
- _____ ⇨ Practice Masters, p. 104
- _____ ⇨ Tech Prep Applications Masters, p. 23
- _____ ⇨  *South Carolina Parent and Student Study Guide Workbook*, p. 115

4 ASSESS

- _____ Closing Activity, Modeling, *TWE*, p. 637
- _____ Extension, Using Consumer Connections, *TWE*, p. 637
- _____ ⇨ Enrichment Masters, p. 104
- _____ ⇨ Group Activity Card 12-5

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12-6 Lesson Planning Guide (pp. 638–642)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Materials/resources needed: _____

Objectives

- _____ 12-6: Find surface areas of pyramids and cones.
- _____ **South Carolina Math Curriculum Standards, Grade 8: NO I.A.1., NO III.A.1., NO III.B.1., NO III.C.1., MEA II.D.1., MEA II.F.1., DAP IV.B.1.**
- _____ State/local objectives: _____

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

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 638
- _____ ⇨ Transparency 12-6A
- _____ Motivating the Lesson, Hands-On Activity, *TWE*, p. 639

2 TEACH


- _____ In-Class Examples, *TWE*, pp. 639, 640
- _____ ⇨ Transparency 12-6B
- _____ Reteaching, Using Models, *TWE*, p. 640
- _____ ⇨ Study Guide Masters, p. 105
- _____ Alternative Teaching Strategies, Reading Mathematics, *TWE*, p. 638

3 PRACTICE/APPLY

- _____ Checking Your Understanding, *SE*, p. 640

Homework Assignments

- _____ Core: 9–17 odd, 18, 19, 21, 23–27
- _____ Enriched: 10–16 even, 18–27
- _____ Alternate Assignment: _____

- _____ Extra Practice, *SE*, p. 770
- _____ ⇨ Practice Masters, p. 105
- _____ ⇨  *South Carolina Parent and Student Study Guide Workbook*, p. 116

4 ASSESS

- _____ Closing Activity, Speaking, *TWE*, p. 642
- _____ Self Test, *SE*, p. 642
- _____ ⇨ Assessment and Evaluation Masters, Quiz C, p. 324
- _____ Extension, Using Formulas, *TWE*, p. 641
- _____ ⇨ Enrichment Masters, p. 105
- _____ Group Activity Card 12-6

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12-7 Lesson Planning Guide (pp. 644–648)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Materials/resources needed: _____

Objectives

- _____ 12-7: Find volumes of prisms and circular cylinders.
- _____ **South Carolina Math Curriculum Standards, Grade 8: NO I.A.1., NO III.A.1., NO III.B.1., ALG III.A.1., GEO IV.B.1., GEO IV.B.2., MEA II.F.1.**
- _____ State/local objectives: _____

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

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 644
- _____ ⇨ Transparency 12-7A
- _____ Motivating the Lesson, Situational Problem, *TWE*, p. 645

2 TEACH


- _____ Math Lab 12-7A, *SE*, p. 643
- _____ In-Class Examples, *TWE*, pp. 645, 646
- _____ ⇨ Transparency 12-7B
- _____ Reteaching, Using Manipulatives, *TWE*, p. 646
- _____ ⇨ Study Guide Masters, p. 106
- _____ Alternative Learning Styles, Visual, *TWE*, p. 644

3 PRACTICE/APPLY

- _____ Checking Your Understanding, *SE*, p. 646

Homework Assignments

- _____ Core: 13–35 odd, 36–42
- _____ Enriched: 14–26 even, 28–42
- _____ Alternate Assignment: _____

- _____ Extra Practice, *SE*, p. 770
- _____ ⇨ Practice Masters, p. 106
- _____ ⇨ Tech Prep Applications Masters, p. 24
- _____ ⇨  *South Carolina Parent and Student Study Guide Workbook*, p. 117

4 ASSESS

- _____ Closing Activity, Writing, *TWE*, p. 648
- _____ Extension, Using Data, *TWE*, p. 648
- _____ ⇨ Enrichment Masters, p. 106
- _____ ⇨ Group Activity Card 12-7

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

12-8 Lesson Planning Guide (pp. 649–653)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Materials/resources needed: _____

Objectives

- _____ 12-8: Find volumes of pyramids and cones.
_____ **South Carolina Math Curriculum Standards, Grade 8: NO I.A.1., NO III.A.1., NO III.B.1., MEA II.F.1., DAP IV.B.1.**
_____ State/local objectives: _____

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

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 649
_____ ⇨ Transparency 12-8A
_____ Motivating the Lesson, Questioning, *TWE*, p. 650

2 TEACH

- _____ In-Class Examples, *TWE*, p. 650
_____ ⇨ Transparency 12-8B
_____ Reteaching, Using Science Connections, *TWE*, p. 651
_____ ⇨ Study Guide Masters, p. 107
_____ Cooperative Learning, Think-Pair-Share, *TWE*, p. 650
_____ ⇨ Interactive Mathematics Tools Software, 12-8
_____ Math Lab 12-8B, *SE*, p. 654

3 PRACTICE/APPLY

- _____ Checking Your Understanding, *SE*, p. 651
_____ Error Analysis, *TWE*, p. 652

Homework Assignments

- _____ Core: 11–29 odd, 31–36
_____ Enriched: 12–26 even, 27–36
_____ Alternate Assignment: _____

- _____ Extra Practice, *SE*, p. 771
_____ ⇨ Practice Masters, p. 107
_____ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 118

4 ASSESS

- _____ Closing Activity, Modeling, *TWE*, p. 653
_____ ⇨ Assessment and Evaluation Masters, Quiz D, p. 324
_____ Extension, Using Formulas, *TWE*, p. 652
_____ ⇨ Enrichment Masters, p. 107
_____ ⇨ Activity Masters, p. 12
_____ ⇨ Multicultural Activity Masters, p. 24
_____ ⇨ Group Activity Card 12-8

Review and Assessment Options

- _____ Chapter 12 Highlights, *SE*, p. 655
_____ Chapter 12 Study Guide and Assessment, *SE*, pp. 656–658
_____ Chapter 12 Alternative Assessment, *SE*, p. 659
_____ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 119
_____ ⇨ *South Carolina PACT Workbook and Test Preparation, Grade 8*
_____ ⇨ Assessment and Evaluation Masters, Chapter 12 Tests, pp. 309–320; Performance Assessment, p. 321; Standardized Test Practice, p. 325; Cumulative Review, pp. 326–327
_____ Chapter 12 Test, *SE*, p. 785
_____ ⇨ Test and Review Software
_____ ⇨ *MindJogger Videoquizzes*, Chapter 12
_____ ⇨ *State Test Preparation CD-ROM*

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