

3 Statistics: Analyzing Data



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: Movies Lights! Camera! Action!
2	2	3-1	Frequency Tables
3	3	3-2A	THINKING LAB Problem Solving Use a Graph
4	4	3-2	Making Predictions
5	5	3-3	Line Plots
6	6	3-4	Mean, Median, and Mode
		*3-4B	HANDS-ON LAB Cooperative Learning Are You Average?
7	7	3-5	Stem-and-Leaf Plots
8 & 9	8 & 9	*3-6A	HANDS-ON LAB Cooperative Learning Quartiles
		3-6	Box-and-Whisker Plots
		*3-6B	HANDS-ON LAB Cooperative Learning How Much Is a Handful?
10	9	3-7	Misleading Statistics
11	10	Review: Study Guide and Assessment	
12	11	Assessment: Chapter Test	

*Optional

Chapter Resources

<p>Meeting Individual Needs <i>Investigations for the Special Education Student</i>, Commercial Success, pp. 3-5 <i>Spanish Study Guide and Assessment</i> <i>Study Guide and Practice Workbook</i></p>	<p>Technology <i>Electronic Teacher's Classroom</i> <i>Resources (ETCR)</i> www.glencoe.com/sec/math/mac/mathnet</p>
<p>Interactive Mathematics: Activities and Investigations Unit 8</p>	<p>Applications <i>Family Letters and Activities</i>, pp. 31-32 <i>Spanish Family Letters and Activities</i>, pp. 31-32</p>



Chapter Project (pp. 86-87)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Use statistics to compare and classify information.
- _____ Understand the usefulness of surveys.
- _____ State/local objectives: _____

**South Carolina Math
Curriculum Standards**
Grade 7: DAP I.B.1.

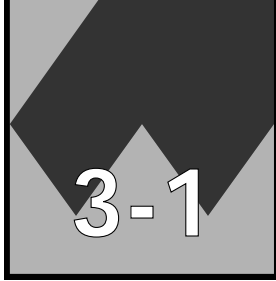
Theme: Movies

- _____ Chapter Project, *SE*, p. 87
- _____ Chapter 3 Notes, *TWE*, p. 86
- _____ Question of the Day, *TWE*, p. 86
- _____ ⇨ *Investigations and Projects Masters*, pp. 25-28

Homework Assignments

- _____ p. 91, Working on the Chapter Project, Exercise 22
- _____ p. 105, Working on the Chapter Project, Exercise 19
- _____ p. 121, Working on the Chapter Project, Exercise 10
- _____ p. 125, Completing the Chapter Project, Alternative Assessment

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



Lesson Planning Guide (pp. 88-91)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Choose appropriate scales and intervals for data, and organize data in a frequency table.
- _____ State/local objectives: _____

NCTM Standards: 1, 5-10
South Carolina Math Curriculum Standards Grade 7: DAP I.B.1.

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 88
- _____ ⇨ Transparency 3-1A
- _____ Motivating the Lesson, Problem Solving, *TWE*, p. 88
- _____ Multiple Learning Styles, Interpersonal, *TWE*, p. 88

2 TEACH

- _____ ⇨ Transparency 3-1B
- _____ Reading Mathematics, *TWE*, p. 88
- _____ In-Class Examples, *TWE*, p. 89
- _____ ⇨ *Study Guide Masters*, p. 17
- _____ Reteaching the Lesson, *TWE*, p. 89
- _____ ⇨ *CD-ROM Program*, Resource Lesson 3-1, Interactive Lesson 3-1
- _____ ⇨ *Interactive Mathematics Tools Software*

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, pp. 89-90

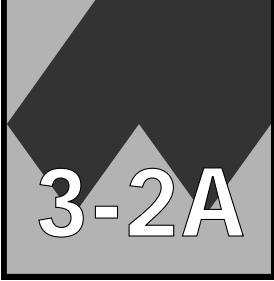
Homework Assignments (p. 90-91)	
_____ Core: 9-21 odd, 23-26	_____ Enriched: 8-20 even, 21, 23-26
_____ Optional: 22 (Working on the Chapter Project)	
_____ Alternate Assignment: _____	

- _____ Extra Practice, *SE*, p. 574
- _____ ⇨ *Practice Masters*, p. 17
- _____ ⇨ *Diversity Masters*, p. 16
- _____ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 19

4 ASSESS

- _____ Closing Activity, Writing, *TWE*, p. 91
- _____ Extending the Lesson, *TWE*, p. 91
- _____ ⇨ *Enrichment Masters*, p. 17

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Lesson Planning Guide (pp. 92-93)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Solve problems by using graphs.
- _____ State/local objectives: _____

NCTM Standards: 1, 5-10
South Carolina Math Curriculum Standards Grade 7: DAP I.B.1.

1 FOCUS

- _____ Getting Started, *TWE*, p. 92

2 TEACH

- _____ *TWE*, p. 92
- _____ Reteaching the Lesson, *TWE*, p. 92
- _____ In-Class Examples, *TWE*, p. 93
- _____ ⇨ *CD-ROM Program*, Interactive Lesson 3-2A

3 PRACTICE/APPLY

- _____ Check for Understanding, *TWE*, p. 93

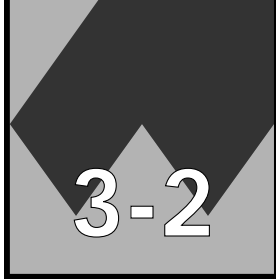
Homework Assignments (p. 93)
_____ All: 4-12
_____ Alternate Assignment: _____

- _____ Extra Practice, *SE*, p. 574
- _____ Mixed Problem Solving, *SE*, pp. 605-606

4 ASSESS

- _____ Closing Activity, Speaking, *TWE*, p. 93
- _____ Extending the Lesson, *TWE*, p. 93

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Lesson Planning Guide (pp. 94-97)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Make predictions from graphs.
- _____ State/local objectives: _____

NCTM Standards: 1, 2, 5-10
South Carolina Math Curriculum Standards
Grade 7: MEA II.B.1., DAP I.B.1., DAP III.A.1.

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 94
- _____ ⇨ Transparency 3-2A
- _____ Motivating the Lesson, Hands-On-Activity, *TWE*, p. 94
- _____ Cross-Curriculum Cue, *TWE*, p. 94

2 TEACH

- _____ ⇨ Transparency 3-2B
- _____ Using the Mini-Lab, *TWE*, p. 95
- _____ ⇨ *Teacher's Guide for Overhead Manipulative Resources*, Mini-Lab for Lesson 3-2
- _____ In-Class Examples, *TWE*, p. 95
- _____ ⇨ *Study Guide Masters*, p. 18
- _____ Reteaching the Lesson, *TWE*, p. 96
- _____ Error Analysis, *TWE*, p. 96
- _____ ⇨ *CD-ROM Program*, Resource Lesson 3-2, Extended Activity 3-2
- _____ ⇨ *Interactive Mathematics Tools Software*

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 96

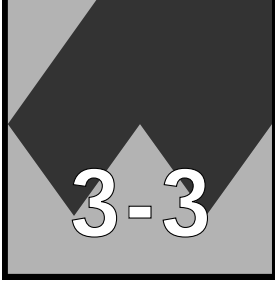
Homework Assignments (pp. 96-97)	
_____ Core: 6-13	_____ Enriched: 6-13
_____ Alternate Assignment: _____	

- _____ Extra Practice, *SE*, p. 574
- _____ ⇨ *Practice Masters*, p. 18
- _____ ⇨ *Hands-On Lab Masters*, p. 74
- _____ ⇨ *Science and Mathematics Lab Manual*, pp. 29-32 & 77-80
- _____ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 20

4 ASSESS

- _____ Closing Activity, Modeling, *TWE*, p. 97
- _____ ⇨ *Assessment and Evaluation Masters*, Quiz A, p. 71
- _____ Extending the Lesson, *TWE*, p. 97
- _____ ⇨ *Enrichment Masters*, p. 18

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Lesson Planning Guide (pp. 98-101)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Construct line plots.
- _____ State/local objectives: _____

NCTM Standards: 1, 5-10
South Carolina Math Curriculum Standards Grade 7: NO I.B.1., DAP I.B.1.

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 98
- _____ ⇨ Transparency 3-3A
- _____ Motivating the Lesson, Communication, *TWE*, p. 98

2 TEACH

- _____ ⇨ Transparency 3-3B
- _____ Thinking Algebraically, *TWE*, p. 99
- _____ In-Class Examples, *TWE*, p. 99
- _____ Multiple Learning Styles, Visual/Spatial, *TWE*, p. 99
- _____ ⇨ *Study Guide Masters*, p. 19
- _____ Reteaching the Lesson, *TWE*, p. 100
- _____ Error Analysis, *TWE*, p. 100
- _____ ⇨ *CD-ROM Program*, Resource Lesson 3-3, Interactive Lesson 3-3

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 100

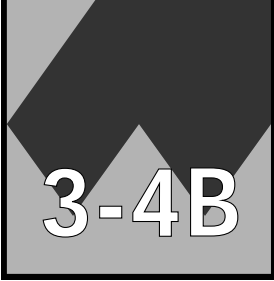
Homework Assignments (p. 46)	
_____ Core: 7-15 odd, 17-20	_____ Enriched: 6-12 even, 14-20
_____ Alternate Assignment: _____	

- _____ Extra Practice, *SE*, p. 574
- _____ ⇨ *Practice Masters*, p. 19
- _____ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 21

4 ASSESS

- _____ Closing Activity, Speaking, *TWE*, p. 101
- _____ Extending the Lesson, *TWE*, p. 101
- _____ ⇨ *Enrichment Masters*, p. 19

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Lesson Planning Guide (pp. 106-107)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Use mean, median, and mode to describe a set of data.
- _____ State/local objectives: _____

NCTM Standards: 1, 5-9
South Carolina Math Curriculum Standards Grade 7: NO I.B.1., MEA II.B.1., DAP I.A.1., DAP III.A.1.

MANAGEMENT

- _____ Getting Started, *TWE*, p. 106
- _____ ⇨ *Teacher's Guide for Overhead Manipulative Resources*, Lesson 3-4B

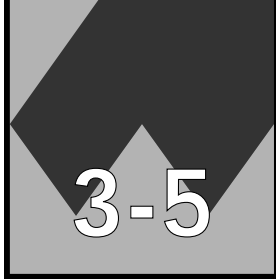
ASSESS

- _____ *TWE*, p. 106
- _____ ⇨ *Hands-On Lab Masters*, p. 41

Class Activity (p. 106)
_____ All: 1-3
_____ Alternate Assignment: _____

- _____ Math Journal, *TWE*, p. 106
- _____ Let the Games Begin, *TWE*, p. 107

KEY	SE = Student Edition	TWE = Teacher's Wraparound Edition	⇨ = Other Program Components
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Lesson Planning Guide (pp. 108-111)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Construct and interpret stem-and-leaf plots.
- _____ State/local objectives: _____

NCTM Standards: 1, 5-10
South Carolina Math Curriculum Standards Grade 7: DAP I.B.1.

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 108
- _____ ⇨ Transparency 3-5A
- _____ Motivating the Lesson, Communication, *TWE*, p. 108

2 TEACH

- _____ ⇨ Transparency 3-5B
- _____ Using Discussion, *TWE*, p. 108
- _____ Multiple Learning Styles, Verbal/Linguistic, *TWE*, p. 108
- _____ In-Class Examples, *TWE*, p. 109
- _____ ⇨ *Study Guide Masters*, p. 21
- _____ Reteaching the Lesson, *TWE*, p. 109
- _____ Error Analysis, *TWE*, p. 109
- _____ ⇨ *Transition Booklet*, pp. 5-6
- _____ ⇨ *CD-ROM Program*, Resource Lesson 3-5

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, pp. 109-110

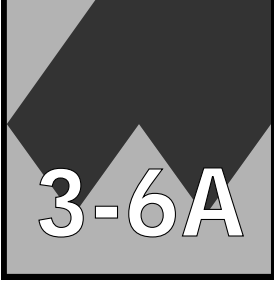
<i>Homework Assignments (pp. 110-111)</i>	
_____ Core: 9-13 odd, 15-18	_____ Enriched: 8-12 even, 13-18
_____ Alternate Assignment: _____	

- _____ Extra Practice, *SE*, p. 575
- _____ ⇨ *Practice Masters*, p. 21
- _____ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 23

4 ASSESS

- _____ Closing Activity, Modeling, *TWE*, p. 111
- _____ Family Activity, *SE*, p. 111
- _____ Extending the Lesson, *TWE*, p. 111
- _____ ⇨ *Enrichment Masters*, p. 21

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Lesson Planning Guide (pp. 112-113)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Graph quartiles and determine interquartile range.
- _____ State/local objectives: _____

NCTM Standards: 1, 5-10
South Carolina Math Curriculum Standards Grade 7: DAP II.A.1.

MANAGEMENT

- _____ Getting Started, *TWE*, p. 112
- _____ ⇨ *Hands-On Lab Masters*, p. 15: number lines
- _____ ⇨ *Teacher's Guide for Overhead Manipulative Resources*, Lesson 3-6A
- _____ ⇨ *Overhead Manipulative Resources*: number line transparency

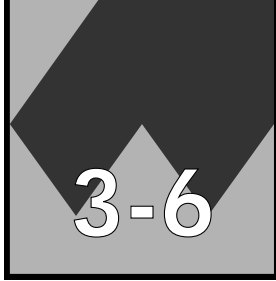
ASSESS

- _____ *TWE*, p. 113
- _____ ⇨ *Hands-On Lab Masters*, p. 42

Class Activity (p. 113)
_____ All: 1-4 _____ Alternate Assignment: _____

- _____ Math Journal, *TWE*, p. 113

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Lesson Planning Guide (pp. 114-117)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Construct and interpret box-and-whisker plots.
- _____ State/local objectives: _____

NCTM Standards: 1, 5-10
South Carolina Math Curriculum Standards
Grade 7: NO I.B.1., DAP I.B.1., DAP II.A.1., DAP II.B.1.

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 114
- _____ ⇨ Transparency 3-6A
- _____ Motivating the Lesson, Hands-On-Activity, *TWE*, p. 115

2 TEACH

- _____ ⇨ Transparency 3-6B
- _____ Reading Mathematics, *TWE*, p. 115
- _____ In-Class Examples, *TWE*, p. 115
- _____ ⇨ *Study Guide Masters*, p. 22
- _____ Reteaching the Lesson, *TWE*, p. 115
- _____ Error Analysis, *TWE*, p. 115
- _____ ⇨ *CD-ROM Program*, Resource Lesson 3-6

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 116

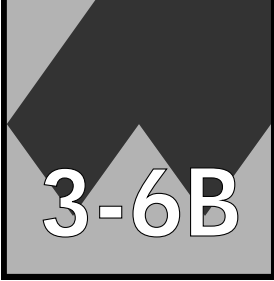
Homework Assignments (p. 117)	
_____ Core: 6, 7, 9-12	_____ Enriched: 6, 8, 9-12
_____ Alternate Assignment: _____	

- _____ Extra Practice, *SE*, p. 576
- _____ ⇨ *Practice Masters*, p. 22
- _____ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 24

4 ASSESS

- _____ Closing Activity, Speaking, *TWE*, p. 117
- _____ ⇨ *Assessment and Evaluation Masters*, Quiz C, p. 72
- _____ Extending the Lesson, *TWE*, p. 117
- _____ ⇨ *Enrichment Masters*, p. 22

KEY	SE = Student Edition	TWE = Teacher's Wraparound Edition	⇨ = Other Program Components
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Lesson Planning Guide (p. 118)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Use data to make predictions.
- _____ State/local objectives: _____

NCTM Standards: 1, 4-9
South Carolina Math Curriculum Standards Grade 7: NO I.B.1., DAP III.A.1.

MANAGEMENT

- _____ Getting Started, *TWE*, p. 118
- _____ ⇨ *Teacher's Guide for Overhead Manipulative Resources*, Lesson 3-6B

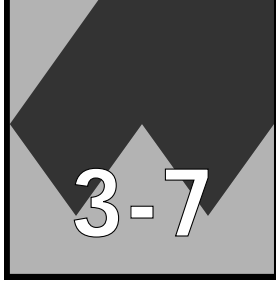
ASSESS

- _____ *TWE*, p. 118
- _____ ⇨ *Hands-On Lab Masters*, p. 43

Class Activity (p. 118)
_____ All: 1-3
_____ Alternate Assignment: _____

- _____ Math Journal, *TWE*, p. 118

KEY	SE = Student Edition	TWE = Teacher's Wraparound Edition	⇨ = Other Program Components
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Lesson Planning Guide (pp. 119-121)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

_____ Recognize when statistics and graphs are misleading.

_____ State/local objectives: _____

NCTM Standards: 1, 5-10
South Carolina Math Curriculum Standards
Grade 7: DAP I.A.1., DAP I.B.1.

1 FOCUS

_____ 5-Minute Check, *TWE*, p. 119

_____ ⇨ Transparency 3-7A

2 TEACH

_____ ⇨ Transparency 3-7B

_____ Using Critical Thinking, *TWE*, p. 119

_____ In-Class Examples, *TWE*, p. 120

_____ ⇨ *Study Guide Masters*, p. 23

_____ Reteaching the Lesson, *TWE*, p. 120

_____ ⇨ *CD-ROM Program*, Resource Lesson 3-7

3 PRACTICE/APPLY

_____ Check for Understanding, *SE*, p. 120

Homework Assignments (p. 121)

_____ Core: 7-11 odd, 12-13

_____ Enriched: 8, 9, 11-13

_____ Optional: 10 (Working on the Chapter Project)

_____ Alternate Assignment: _____

_____ Extra Practice, *SE*, p. 576

_____ ⇨ *Practice Masters*, p. 23

_____ ⇨ *Technology Masters*, Graphing Calculator Activity, p. 32

_____ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 25

4 ASSESS

_____ Closing Activity, Writing, *TWE*, p. 121

_____ ⇨ *Assessment and Evaluation Masters*, Quiz D, p. 72

_____ Extending the Lesson, *TWE*, p. 121

_____ ⇨ *Enrichment Masters*, p. 23

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



Review and Assessment (pp. 122-127)



Teacher's Name _____ Dates _____

Grade _____ Class _____

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

- _____ Study Guide and Assessment, *SE*, pp. 122-125
- _____ Standardized Test Practice, *SE*, pp. 126-127
- _____ Chapter Test, *SE*, p. 609



⇨ **Assessment and Evaluation Masters (pp. 57-75)**

Multiple-Choice Tests

- _____ Form 1A, 1B, or 1C, pp. 57-62
- _____ Standardized Test Practice, pp. 73-74

Free-Response Tests

- _____ Form 2A, 2B, or 2C, pp. 63-68
- _____ Performance Assessment, p. 69
- _____ Cumulative Review, p. 75

- _____ ⇨ *MindJogger Videoquizzes*, Chapter 3
- _____ ⇨ *Test and Review Software*
- _____ ⇨ *CD-ROM Assessment Game*
- _____ ⇨ *State Test Preparation CD-ROM*
- _____ ⇨  *South Carolina Parent and Student Study Guide Workbook*, p. 26
- _____ ⇨  *South Carolina PACT Workbook and Test Preparation, Grade 7*

Interdisciplinary Investigation, SE, pp. 128-129

- _____ Interdisciplinary Investigation, *TWE*, pp. 128-129
- _____ ⇨ *Investigations and Projects Masters*, pp. 1-4

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