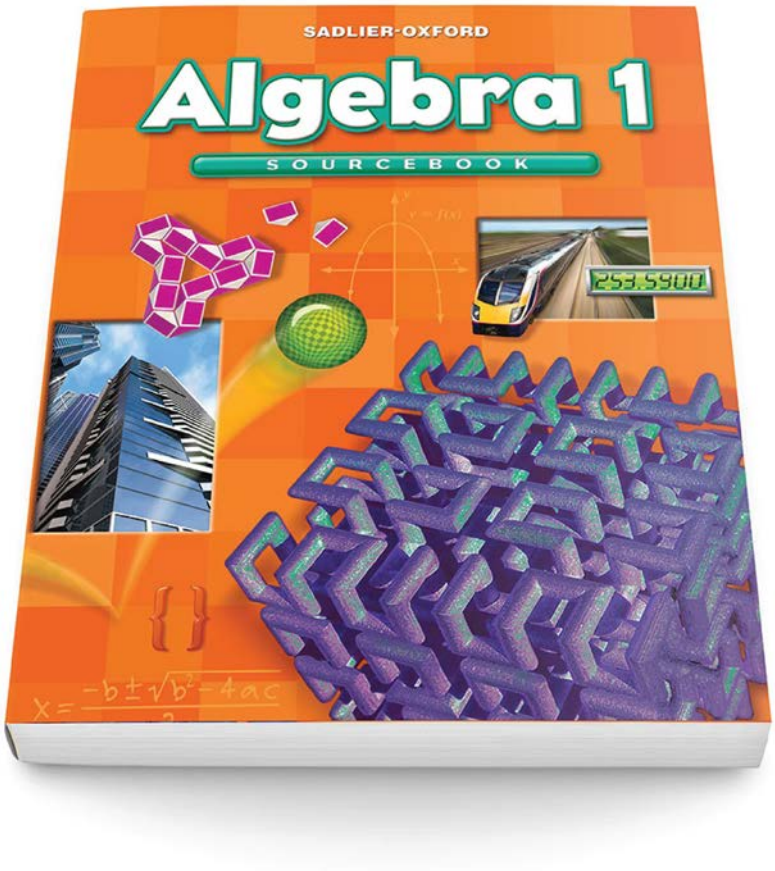
Algebra 1

Correlation to Florida's B.E.S.T. Standards for Mathematics

Grade 9



CONTENTS

Number Sense and Operations

Grade 9

FLORIDA'S B.E.S.T. STANDARDS: MATHEMATICS	SADLIER-OXFORD ALGEBRA 1
MA.912.NSO.1.1 Extend previous understanding of the Laws of Exponents to include rational exponents. Apply the Laws of Exponents to evaluate numerical expressions and generate equivalent numerical expressions involving rational exponents. **Benchmark Clarifications:** *Clarification 1:* Instruction includes the use of technology when appropriate. *Clarification 2:* Refer to the *K-12 Formulas* (Appendix E) for the Laws of Exponents.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 1 BASIC CONCEPTS OF ALGEBRA** • 1-5 Integer Exponents—SB/TE pp. 10–11 • 1-5A Properties of Integer Exponents—Online STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 1-5 Integer Exponents—PB pp. 9–10/TE pp. 11A–11B DIGITAL RESOURCES: CHAPTER COMMON CORE LESSON PLANS (TEACHER EDITION)* • 1-5A Properties of Integer Exponent DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS**/FULL ACCESS** Chapter 1 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 1 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 9 RADICAL EXPRESSIONS AND EQUATIONS** • 9-4A Rational Exponents—Online • 9-4B Use Properties of Rational Exponents (generate equivalent numerical expressions)—Online DIGITAL RESOURCES: CHAPTER COMMON CORE LESSON PLANS (TEACHER EDITION)* • 9-4A Rational Exponents • 9-4B Use Properties of Rational Exponents DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS**/FULL ACCESS** Chapter 9 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 9 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 13 EXPONENTIAL AND OTHER NONLINEAR FUNCTIONS** • 13-4 Identify Exponential Functions and Their Graphs—SB/TE pp. 338–341 STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 13-4 Identify Exponential Functions and Their Graphs—PB pp. 337–340/TE pp. 341A–341B DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 13 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 13 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary

*Digital resources available at SadlierConnect.com
***Full Access* is a data-driven solution with diagnostic assessments, instruction, practice, and detailed reporting. It includes relevant program resources that span various grade levels and allows for differentiation to meet the needs of individual students.

Number Sense and Operations

Grade 9

FLORIDA'S B.E.S.T. STANDARDS: MATHEMATICS	SADLIER-OXFORD ALGEBRA 1
MA.912.NSO.1.2 Generate equivalent monomial algebraic expressions using the properties of exponents.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 1 BASIC CONCEPTS OF ALGEBRA** • 1-5A Properties of Integer Exponents—Online DIGITAL RESOURCES: CHAPTER COMMON CORE LESSON PLANS (TEACHER EDITION)* • 1-5A Properties of Integer Exponent DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS**/FULL ACCESS** Chapter 1 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 1 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 9 RADICAL EXPRESSIONS AND EQUATIONS** • 9-4B Use Properties of Rational Exponents (generate equivalent numerical expressions)—Online DIGITAL RESOURCES: CHAPTER COMMON CORE LESSON PLANS (TEACHER EDITION)* • 9-4A Rational Exponents • 9-4B Use Properties of Rational Exponents DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS**/FULL ACCESS** Chapter 9 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 9 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 13 EXPONENTIAL AND OTHER NONLINEAR FUNCTIONS** • 13-4 Identify Exponential Functions and Their Graphs—SB/TE pp. 338–341 STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 13-4 Identify Exponential Functions and Their Graphs—PB pp. 337–340/TE pp. 341A–341B DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 13 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 13 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary

*Digital resources available at SadlierConnect.com
***Full Access* is a data-driven solution with diagnostic assessments, instruction, practice, and detailed reporting. It includes relevant program resources that span various grade levels and allows for differentiation to meet the needs of individual students.

Number Sense and Operations

Grade 9

FLORIDA'S B.E.S.T. STANDARDS: MATHEMATICS	SADLIER-OXFORD ALGEBRA 1
MA.912.NSO.1.4 Apply previous understanding of operations with rational numbers to add, subtract, multiply and divide numerical radicals. *Algebra 1 Example:* The expression $\frac{\sqrt{136}}{\sqrt{2}}$ is equivalent to $\sqrt{\frac{136}{2}}$ which is equivalent to $\sqrt{68}$ which is equivalent to $2\sqrt{17}$. **Benchmark Clarifications:** *Clarification 1:* Within the Algebra 1 course, expressions are limited to a single arithmetic operation involving two square roots or two cube roots.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **Chapter 9 Radical Expressions and Equations** • 9-1 Simplify Radical Expressions—SB/TE pp. 226–227 • 9-2 Add and Subtract Radical Expressions—SB/TE pp. 228–229 • 9-3 Multiply and Divide Radical Expressions—SB/TE pp. 230–233 STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 9-1 Simplify Radical Expressions—PB pp. 221–222/TE pp. 227A–227B • 9-2 Add and Subtract Radical Expressions—PB pp. 223–224/TE pp. 229A–229B • 9-3 Multiply and Divide Radical Expressions—PB pp. 225–226/TE pp. 233A–233B DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS**/FULL ACCESS** Chapter 9 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 9 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary

Algebraic Reasoning

FLORIDA'S B.E.S.T. STANDARDS: MATHEMATICS	SADLIER-OXFORD ALGEBRA 1
MA.912.AR.1.1 Identify and interpret parts of an expression that represent a quantity in terms of a mathematical or real-world context, including viewing one or more of its parts as a single entity. *Algebra 1 Example:* Derrick is using the formula $P = 1000(1 + .1)^t$ to make a prediction about the camel population in Australia. He identifies the growth factor as (1 + .1), or 1.1, and states that the camel population will grow at an annual rate of 10% per year. **Benchmark Clarifications:** *Clarification 1:* Parts of an expression include factors, terms, constants, coefficients and variables. *continued*	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **Chapter 1 Basic Concepts of Algebra** • 1-8 Algebraic Expressions—SB/TE pp. 16–19 • 1-8A Interpret Parts of Expressions—Online • 1-15 Problem-Solving Strategy: Make a Drawing—SB/TE pp. 34–35 STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 1-8 Algebraic Expressions—PB pp. 15–16/TE pp. 19A–19B • 1-15 Problem-Solving Strategy: Make a Drawing—PB pp. 29–30/TE pp. 35A–35B DIGITAL RESOURCES: CHAPTER COMMON CORE LESSON PLANS (TEACHER EDITION)* • 1-8A Interpret Parts of Expressions DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS**/FULL ACCESS** Chapter 1 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 1 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary *See also* STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **Chapter 2 Linear Equations** • 2-9 Problem-Solving Strategy: Solve a Simpler Problem—SB/TE pp. 64–65 *continued*

*Digital resources available at SadlierConnect.com
***Full Access* is a data-driven solution with diagnostic assessments, instruction, practice, and detailed reporting. It includes relevant program resources that span various grade levels and allows for differentiation to meet the needs of individual students.

Algebraic Reasoning

Grade 9

FLORIDA'S B.E.S.T. STANDARDS: MATHEMATICS	SADLIER-OXFORD ALGEBRA 1
continued	*continued*
MA.912.AR.1.1 Identify and interpret parts of an expression that represent a quantity in terms of a mathematical or real-world context, including viewing one or more of its parts as a single entity. *Algebra 1 Example:* Derrick is using the formula $P = 1000(1 + .1)^t$ to make a prediction about the camel population in Australia. He identifies the growth factor as (1 + .1), or 1.1, and states that the camel population will grow at an annual rate of 10% per year. **Benchmark Clarifications:** *Clarification 1:* Parts of an expression include factors, terms, constants, coefficients and variables.	STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 2-9 Problem-Solving Strategy: Solve a Simpler Problem—PB pp. 55–56/TE pp. 65A–65B STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 3 LINEAR INEQUALITIES** • 3-8 Problem-Solving Strategy: Reason Logically—SB/TE pp. 88–89 STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 3-8 Problem-Solving Strategy: Reason Logically—PB pp. 79–80/TE pp. 89A–89B STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 13 EXPONENTIAL AND OTHER NONLINEAR FUNCTIONS** • 13-9 Problem-Solving Strategy: Organize Data—SB/TE pp. 352–353 STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 13-9 Problem-Solving Strategy: Organize Data—PB pp. 349–350/TE pp. 353A–353B
MA.912.AR.1.2 Rearrange equations or formulas to isolate a quantity of interest. *Algebra 1 Example:* The Ideal Gas Law $PV = nRT$ can be rearranged as $T = \frac{PV}{nR}$ to isolate temperature as the quantity of interest. **Benchmark Clarifications:** *Clarification 1:* Instruction includes using formulas for temperature, perimeter, area and volume; using equations for linear (standard, slope-intercept and point-slope forms) and quadratic (standard, factored and vertex forms) functions.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 2 LINEAR EQUATIONS** • 2-2 Solve Addition and Subtraction Equations—SB/TE pp. 42–45 • 2-3 Solve Multiplication and Division Equations—SB/TE pp. 46–49 • 2-5 Solve Multistep Equations—SB/TE pp. 54–57 • 2-5A Solve Equations with Letter Coefficients—Online • 2-6 Solve Absolute-Value Equations—SB/TE pp. 58–59 • 2-7 Formulas and Literal Equations—SB/TE pp. 60–61 • 2-7A Dimensional Analysis of Units—Online • 2-8 Technology: Solve Linear and Literal Equations—SB/TE pp. 62–63 STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 2-2 Solve Addition and Subtraction Equations—PB pp. 41–42/TE pp. 45A–45B • 2-3 Solve Multiplication and Division Equations—PB pp. 43–44/TE pp. 49A–49B • 2-6 Solve Absolute-Value Equations—PB pp. 49–50/TE pp. 59A–59B • 2-7 Formulas and Literal Equations—PB pp. 51–52/TE pp. 61A–61B • 2-8 Technology: Solve Linear and Literal Equations—PB pp. 53–54/TE pp. 63A–63B DIGITAL RESOURCES: CHAPTER COMMON CORE LESSON PLANS (TEACHER EDITION)* • 2-5A Solve Equations with Letter Coefficients • 2-7A Dimensional Analysis of Units DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS**/FULL ACCESS** Chapter 2 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 2 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary
continued	*continued*

*Digital resources available at SadlierConnect.com
***Full Access* is a data-driven solution with diagnostic assessments, instruction, practice, and detailed reporting. It includes relevant program resources that span various grade levels and allows for differentiation to meet the needs of individual students.

Algebraic Reasoning

Grade 9

FLORIDA'S B.E.S.T. STANDARDS: MATHEMATICS	SADLIER-OXFORD ALGEBRA 1

continued

MA.912.AR.1.2 Rearrange equations or formulas to isolate a quantity of interest.

Algebra 1 Example:
The Ideal Gas Law $PV = nRT$ can be rearranged as $T = \frac{PV}{nR}$ to isolate temperature as the quantity of interest.

Benchmark Clarifications:
Clarification 1: Instruction includes using formulas for temperature, perimeter, area and volume; using equations for linear (standard, slope-intercept and point-slope forms) and quadratic (standard, factored and vertex forms) functions.

continued

STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK*

Chapter 5 Linear Functions

- 5-1 Identify Linear Functions and Their Graphs—SB/TE pp. 116–119
- 5-2 Direct Variation—SB/TE pp. 120–121
- 5-3 Equations in Slope-Intercept Form—SB/TE pp. 122–125
- 5-4 Equations in Point-Slope Form—SB/TE pp. 126–127
- 5-5 Change the Form of a Linear Equation—SB/TE pp. 128–131

STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK*

- 5-1 Identify Linear Functions and Their Graphs—PB pp. 109–112/TE pp. 119A–119B
- 5-2 Direct Variation—PB pp. 113–114/TE pp. 121A–121B
- 5-3 Equations in Slope-Intercept Form—PB pp. 115–116/TE pp. 125A–125B
- 5-4 Equations in Point-Slope Form—PB pp. 117–118/TE pp. 127A–127B
- 5-5 Change the Form of a Linear Equation—PB pp. 119–120/TE pp. 131A–131B

DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS**

Chapter 5 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys

Chapter 5 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary

STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK*

Chapter 10 Quadratic Functions and Equations

- 10-1 Identify Quadratic Functions and Their Graphs—SB/TE pp. 246–249
- 10-3 Solve Quadratic Equations by Factoring—SB/TE pp. 254–257
- 10-4 Solve Verbal Problems Involving Quadratic Equations—SB/TE pp. 258–259

STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK*

- 10-1 Identify Quadratic Functions and Their Graphs—PB pp. 243–246/TE pp. 249A–249B
- 10-3 Solve Quadratic Equations by Factoring—PB pp. 249–252/TE pp. 257A–257B
- 10-4 Solve Verbal Problems Involving Quadratic Equations—PB pp. 253–254/TE pp. 259A–259B

DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS**

Chapter 10 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys

Chapter 10 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary

*Digital resources available at SadlierConnect.com
***Full Access* is a data-driven solution with diagnostic assessments, instruction, practice, and detailed reporting. It includes relevant program resources that span various grade levels and allows for differentiation to meet the needs of individual students.

Algebraic Reasoning

Grade 9

FLORIDA'S B.E.S.T. STANDARDS: MATHEMATICS	SADLIER-OXFORD ALGEBRA 1
MA.912.AR.1.3 Add, subtract and multiply polynomial expressions with rational number coefficients. **Benchmark Clarifications:** *Clarification 1:* Instruction includes an understanding that when any of these operations are performed with polynomials the result is also a polynomial. *Clarification 2:* Within the Algebra 1 course, polynomial expressions are limited to 3 or fewer terms with integer coefficients.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **Chapter 7 Operations with Polynomials** • 7-1 Introduction to Polynomials—SB/TE pp. 176–177 • 7-2 Add and Subtract Polynomials—SB/TE pp. 178–181 • 7-3 Multiply a Polynomial by a Monomial—SB/TE pp. 182–183 • 7-4 Model Binomial Multiplication—SB/TE pp. 184–185 • 7-5 Multiply Binomials—SB/TE pp. 186–187 • 7-6 Multiply Polynomials—SB/TE pp. 188–189 STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 7-1 Introduction to Polynomials—PB pp. 169–170/TE pp. 177A–177B • 7-2 Add and Subtract Polynomials—PB pp. 171–172/TE pp. 181A–181B • 7-3 Multiply a Polynomial by a Monomial—PB pp. 173–174/TE pp. 183A–183B • 7-4 Model Binomial Multiplication—PB pp. 175–176/TE pp. 185A–185B • 7-5 Multiply Binomials—PB pp. 177–178/TE pp. 187A–187B • 7-6 Multiply Polynomials—PB pp. 179–180/TE pp. 189A–189B DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS**/FULL ACCESS** Chapter 7 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 7 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary
MA.912.AR.1.4 Divide a polynomial expression by a monomial expression with rational number coefficients. **Benchmark Clarifications:** *Clarification 1:* Within the Algebra 1 course, polynomial expressions are limited to 3 or fewer terms with integer coefficients.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **Chapter 7 Operations with Polynomials** • 7-7 Divide a Polynomial by a Monomial—SB/TE pp. 190–191 • 7-8 Divide Polynomials Using Long Division—SB/TE pp. 192–193 STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 7-7 Divide a Polynomial by a Monomial—PB pp. 181–182/TE pp. 191A–191B • 7-8 Divide Polynomials Using Long Division—PB pp. 183–184/TE pp. 193A–193B DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 7 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 7 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary

*Digital resources available at SadlierConnect.com
***Full Access* is a data-driven solution with diagnostic assessments, instruction, practice, and detailed reporting. It includes relevant program resources that span various grade levels and allows for differentiation to meet the needs of individual students.

Algebraic Reasoning

Grade 9

FLORIDA'S B.E.S.T. STANDARDS: MATHEMATICS	SADLIER-OXFORD ALGEBRA 1
MA.912.AR.1.7 Rewrite a polynomial expression as a product of polynomials. *Example:* The expression $4x^3y - 3x^2y^4$ is equivalent to the factored form $x^2y(4x - 3y^3)$. *Example:* The expression $16x^2 - 9y^2$ is equivalent to the factored form $(4x - 3y)(4x + 3y)$. **Benchmark Clarifications:** *Clarification 1:* Within the Algebra 1 course, polynomial expressions are limited to 4 or fewer terms with integer coefficients.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 8 FACTORING POLYNOMIALS** • 8-1 Common Monomial Factors—SB/TE pp. 200–201 • 8-2 Factor Trinomials: $ax^2 + bx + c$, $a = 1$—SB/TE pp. 202–205 • 8-3 Factor Trinomials: $ax^2 + bx + c$, $a \neq 1$—SB/TE pp. 206–209 • 8-4 Special Product and Factoring: $(a \pm b)^2 = a^2 \pm 2ab + b^2$—SB/TE pp. 210–211 • 8-5 Special Product and Factoring: $(a + b)(a - b) = a^2 - b^2$—SB/TE pp. 212–213 • 8-6 Factor by Grouping—SB/TE pp. 214–215 • 8-7 Factor Completely—SB/TE pp. 216–217 • 8-8 Technology: Factor Polynomials Using a Graph—SB/TE pp. 218–219 STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 8-1 Common Monomial Factors—PB pp. 195–196/TE pp. 201A–201B • 8-2 Factor Trinomials: $ax^2 + bx + c$, $a = 1$—PB pp. 197–198/TE pp. 205A–205B • 8-3 Factor Trinomials: $ax^2 + bx + c$, $a \neq 1$—PB pp. 199–200/TE pp. 209A–209B • 8-4 Special Product and Factoring: $(a \pm b)^2 = a^2 \pm 2ab + b^2$—PB pp. 201–202/TE pp. 211A–211B • 8-5 Special Product and Factoring: $(a + b)(a - b) = a^2 - b^2$—PB pp. 203–204/TE pp. 213A–213B • 8-6 Factor by Grouping—PB pp. 205–206/TE pp. 215A–215B • 8-7 Factor Completely—PB pp. 207–208/TE pp. 217A–217B • 8-8 Technology: Factor Polynomials Using a Graph—PB pp. 209–210/TE pp. 219A–219B DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS**/FULL ACCESS** Chapter 8 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 8 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary
MA.912.AR.2.1 Given a real-world context, write and solve one-variable multi-step linear equations.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 2 LINEAR EQUATIONS** • 2-4 Solve Equations with Two Operations—SB/TE pp. 50–53 • 2-5 Solve Multistep Equations—SB/TE pp. 54–57 • 2-5A Solve Equations with Letter Coefficients—Online STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 2-4 Solve Equations with Two Operations—PB pp. 45–46/TE pp. 53A–53B • 2-5 Solve Multistep Equations—PB pp. 47–48/TE pp. 57A–57B DIGITAL RESOURCES: CHAPTER COMMON CORE LESSON PLANS (TEACHER EDITION)* • 2-5A Solve Equations with Letter Coefficients DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 2 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 2 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary

*Digital resources available at SadlierConnect.com
***Full Access* is a data-driven solution with diagnostic assessments, instruction, practice, and detailed reporting. It includes relevant program resources that span various grade levels and allows for differentiation to meet the needs of individual students.

Algebraic Reasoning

Grade 9

FLORIDA'S B.E.S.T. STANDARDS: MATHEMATICS	SADLIER-OXFORD ALGEBRA 1
MA.912.AR.2.2 Write a linear two-variable equation to represent relationships between quantities from a graph, a written description or a table of values within a mathematical or real-world context. **Benchmark Clarifications:** *Clarification 1:* Instruction includes the use of standard form, slope-intercept form and point-slope form, and the conversion between these forms.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 5 LINEAR FUNCTIONS** • 5-1 Identify Linear Functions and Their Graphs—SB/TE pp. 116–119 • 5-2 Direct Variation—SB/TE pp. 120–121 • 5-3 Equations in Slope-Intercept Form—SB/TE pp. 122–125 • 5-4 Equations in Point-Slope Form—SB/TE pp. 126–127 • 5-5 Change the Form of a Linear Equation—SB/TE pp. 128–131 STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 5-1 Identify Linear Functions and Their Graphs—PB pp. 109–112/TE pp. 119A–119B • 5-2 Direct Variation—PB pp. 113–114/TE pp. 121A–121B • 5-3 Equations in Slope-Intercept Form—PB pp. 115–116/TE pp. 125A–125B • 5-4 Equations in Point-Slope Form—PB pp. 117–118/TE pp. 127A–127B • 5-5 Change the Form of a Linear Equation—PB pp. 119–120/TE pp. 131A–131B DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 5 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 5 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary
MA.912.AR.2.2 Write a linear two-variable equation to represent relationships between quantities from a graph, a written description or a table of values within a mathematical or real-world context. **Benchmark Clarifications:** *Clarification 1:* Instruction includes the use of standard form, slope-intercept form and point-slope form, and the conversion between these forms.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 5 LINEAR FUNCTIONS** • 5-1 Identify Linear Functions and Their Graphs—SB/TE pp. 116–119 • 5-2 Direct Variation—SB/TE pp. 120–121 • 5-3 Equations in Slope-Intercept Form—SB/TE pp. 122–125 • 5-4 Equations in Point-Slope Form—SB/TE pp. 126–127 • 5-5 Change the Form of a Linear Equation—SB/TE pp. 128–131 STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 5-1 Identify Linear Functions and Their Graphs—PB pp. 109–112/TE pp. 119A–119B • 5-2 Direct Variation—PB pp. 113–114/TE pp. 121A–121B • 5-3 Equations in Slope-Intercept Form—PB pp. 115–116/TE pp. 125A–125B • 5-4 Equations in Point-Slope Form—PB pp. 117–118/TE pp. 127A–127B • 5-5 Change the Form of a Linear Equation—PB pp. 119–120/TE pp. 131A–131B DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 5 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 5 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary

*Digital resources available at SadlierConnect.com
***Full Access* is a data-driven solution with diagnostic assessments, instruction, practice, and detailed reporting. It includes relevant program resources that span various grade levels and allows for differentiation to meet the needs of individual students.

Algebraic Reasoning

Grade 9

FLORIDA'S B.E.S.T. STANDARDS: MATHEMATICS	SADLIER-OXFORD ALGEBRA 1
MA.912.AR.2.3 Write a linear two-variable equation for a line that is parallel or perpendicular to a given line and goes through a given point. **Benchmark Clarifications:** *Clarification 1:* : Instruction focuses on recognizing that perpendicular lines have slopes that when multiplied result in −1 and that parallel lines have slopes that are the same. *Clarification 2:* Instruction includes representing a line with a pair of points on the coordinate plane or with an equation. *Clarification 3:* Problems include cases where one variable has a coefficient of zero.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 5 LINEAR FUNCTIONS** • 5-6 Parallel and Perpendicular Lines—SB/TE pp. 132–135 STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 5-6 Parallel and Perpendicular Lines—PB pp. 121–122/TE pp. 135A–135B DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 5 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 5 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary
MA.912.AR.2.4 Given a table, equation or written description of a linear function, graph that function, and determine and interpret its key features. **Benchmark Clarifications:** *Clarification 1:* Key features are limited to domain, range, intercepts and rate of change. *Clarification 2:* Instruction includes the use of standard form, slope-intercept form and point-slope form. *Clarification 3:* Instruction includes cases where one variable has a coefficient of zero.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 4 RELATIONS AND FUNCTIONS** • 4-2A Graphs of Functions—Online • 4-5B Features of Functions—Online **SKILLS UPDATE: REVIEW OF PREREQUISITE SKILLS** • XI. The Coordinate Plane—SB pp. 408–409 DIGITAL RESOURCES: CHAPTER COMMON CORE LESSON PLANS (TEACHER EDITION)* • 4-2A Graphs of Functions • 4-5B Features of Functions DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Skills Update Instruction and Student Practice • The Coordinate Plane Chapter 4 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 4 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary Virtual Manipulatives: Data & Graphs • Coordinate Grid

*Digital resources available at SadlierConnect.com
***Full Access* is a data-driven solution with diagnostic assessments, instruction, practice, and detailed reporting. It includes relevant program resources that span various grade levels and allows for differentiation to meet the needs of individual students.

Algebraic Reasoning

Grade 9

FLORIDA'S B.E.S.T. STANDARDS: MATHEMATICS	SADLIER-OXFORD ALGEBRA 1
MA.912.AR.2.5 Solve and graph mathematical and real-world problems that are modeled with linear functions. Interpret key features and determine domain constraints in terms of the context. *Algebra 1 Example:* Lizzy's mother uses the function $C(p) = 450 + 7.75\,p$, where $C(p)$ represents the total cost of a rental space and p is the number of people attending, to help budget Lizzy's 16th birthday party. Lizzy's mom wants to spend no more than $850 for the party. Graph the function in terms of the context. **Benchmark Clarifications:** *Clarification 1:* Key features are limited to domain, range, intercepts and rate of change. *Clarification 2:* Instruction includes the use of standard form, slope-intercept form and point-slope form. *Clarification 3:* Instruction includes representing constraints with inequalities or set-builder notation.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **Chapter 4 Relations and Functions** • 4-2A Graphs of Functions: Problem Solving—Online DIGITAL RESOURCES: CHAPTER COMMON CORE LESSON PLANS (TEACHER EDITION)* • 4-2A Graphs of Functions DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 4 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 4 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **Chapter 5 Linear Functions** • 5-1 Identify Linear Functions and Their Graphs—SB/TE pp. 116–119 • 5-2 Direct Variation—SB/TE pp. 120–121 • 5-3 Equations in Slope-Intercept Form—SB/TE pp. 122–125 • 5-4 Equations in Point-Slope Form—SB/TE pp. 126–127 • 5-6A Average Rate of Change—Online • 5-7 Graph a Linear Inequality in the Coordinate Plane—SB/TE pp. 136–137 STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 5-1 Identify Linear Functions and Their Graphs—PB pp. 109–112/TE pp. 119A–119B • 5-2 Direct Variation—PB pp. 113–114/TE pp. 121A–121B • 5-3 Equations in Slope-Intercept Form—PB pp. 115–116/TE pp. 125A–125B • 5-4 Equations in Point-Slope Form—PB pp. 117–118/TE pp. 127A–127B • 5-7 Graph a Linear Inequality in the Coordinate Plane—PB pp. 123–124/TE pp. 137A–137B DIGITAL RESOURCES: CHAPTER COMMON CORE LESSON PLANS (TEACHER EDITION)* • 5-6A Average Rate of Change DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 5 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 5 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary

*Digital resources available at SadlierConnect.com
***Full Access* is a data-driven solution with diagnostic assessments, instruction, practice, and detailed reporting. It includes relevant program resources that span various grade levels and allows for differentiation to meet the needs of individual students.

Algebraic Reasoning

Grade 9

FLORIDA'S B.E.S.T. STANDARDS: MATHEMATICS	SADLIER-OXFORD ALGEBRA 1
MA.912.AR.2.6 Given a mathematical or real-world context, write and solve one-variable linear inequalities, including compound inequalities. Represent solutions algebraically or graphically. *Algebra 1 Example:* The compound inequality $2x \leq 5x + 1 < 4$ is equivalent to $-1 \leq 3x$ and $5x < 3$, which is equivalent to $\frac{-1}{3} \leq x < \frac{3}{5}$. The solution set is $\{\frac{-1}{3}, \frac{3}{5}\}$.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 3 LINEAR INEQUALITIES** • 3-1 Write and Graph Inequalities—SB/TE pp. 70–71 • 3-2 Solve Inequalities Using Addition or Subtraction—SB/TE pp. 72–73 • 3-3 Solve Inequalities Using Multiplication or Division—SB/TE pp. 74–75 • 3-4 Solve Multistep Inequalities—SB/TE pp. 76–79 • 3-5 Solve Compound Inequalities—SB/TE pp. 80–83 STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 3-1 Write and Graph Inequalities—PB pp. 65–66/TE pp. 71A–71B • 3-2 Solve Inequalities Using Addition or Subtraction—PB pp. 67–68/TE pp. 73A–73B • 3-3 Solve Inequalities Using Multiplication or Division—PB pp. 69–70/TE pp. 75A–75B • 3-4 Solve Multistep Inequalities—PB pp. 71–72/TE pp. 79A–79B • 3-5 Solve Compound Inequalities—PB pp. 73–74/TE pp. 83A–83B DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 3 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 3 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary Virtual Manipulatives: Number Lines • Inequalities
MA.912.AR.2.7 Write two-variable linear inequalities to represent relationships between quantities from a graph or a written description within a mathematical or real-world context. **Benchmark Clarifications:** *Clarification 1:* Instruction includes the use of standard form, slope-intercept form and point-slope form and any inequality symbol can be represented. *Clarification 2*: Instruction includes cases where one variable has a coefficient of zero.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 6 SYSTEMS OF LINEAR EQUATIONS AND INEQUALITIES** • 6-6 Graph Systems of Linear Inequalities—SB/TE pp. 162–165 • 6-8 Technology: Graph Systems of Inequalities—SB/TE pp. 168–169 STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 6-1 Solve Systems of Linear Equations Graphically—PB pp. 141–144/TE pp. 153A–153B • 6-8 Technology: Graph Systems of Inequalities—PB pp. 157–158/TE pp. 169A–169B DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 6 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 6 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary Virtual Manipulatives: Number Lines • Inequalities

*Digital resources available at SadlierConnect.com
***Full Access* is a data-driven solution with diagnostic assessments, instruction, practice, and detailed reporting. It includes relevant program resources that span various grade levels and allows for differentiation to meet the needs of individual students.

Algebraic Reasoning

Grade 9

FLORIDA'S B.E.S.T. STANDARDS: MATHEMATICS	SADLIER-OXFORD ALGEBRA 1
MA.912.AR.2.8 Given a mathematical or real-world context, graph the solution set to a two-variable linear inequality. **Benchmark Clarifications:** *Clarification 1:* Instruction includes the use of standard form, slope-intercept form and point-slope form and any inequality symbol can be represented. *Clarification 2:* Instruction includes cases where one variable has a coefficient of zero.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 6 SYSTEMS OF LINEAR EQUATIONS AND INEQUALITIES** • 6-6 Graph Systems of Linear Inequalities—SB/TE pp. 162–165 • 6-8 Technology: Graph Systems of Inequalities—SB/TE pp. 168–169 STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 6-1 Solve Systems of Linear Equations Graphically—PB pp. 141–144/TE pp. 153A–153B • 6-7 Technology: Graph Systems of Equations—PB pp. 155–156/TE pp. 167A–167B DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 6 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 6 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary Virtual Manipulatives: Number Lines • Inequalities
MA.912.AR.3.1 Given a mathematical or real-world context, write and solve one-variable quadratic equations over the real number system. **Benchmark Clarifications:** *Clarification 1:* Within the Algebra 1 course, instruction includes the concept of non-real answers, without determining non-real solutions. *Clarification 2:* Within this benchmark, the expectation is to solve by factoring techniques, taking square roots, the quadratic formula and completing the square.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 10 QUADRATIC FUNCTIONS AND EQUATIONS** • 10-3 Solve Quadratic Equations by Factoring—SB/TE pp. 254–257 • 10-4 Solve Verbal Problems Involving Quadratic Equations—SB/TE pp. 258–259 • 10-5 Solve Quadratic Equations by Completing the Square—SB/TE pp. 260–261 • 10-6 The Quadratic Formula and the Discriminant—SB/TE pp. 262–263 • 10-7 Solve Quadratic Equations with the Quadratic Formula—SB/TE pp. 264–265 STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 10-3 Solve Quadratic Equations by Factoring—PB pp. 249–252/TE pp. 257A–257B • 10-4 Solve Verbal Problems Involving Quadratic Equations—PB pp. 253–254/TE pp. 259A–259B • 10-5 Solve Quadratic Equations by Completing the Square—PB pp. 255–256/TE pp. 261A–261B • 10-6 The Quadratic Formula and the Discriminant—PB pp. 257–258/TE pp. 263A–263B • 10-7 Solve Quadratic Equations with the Quadratic Formula—PB pp. 259–260/TE pp. 265A–265B DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 10 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 10 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary

*Digital resources available at SadlierConnect.com
***Full Access* is a data-driven solution with diagnostic assessments, instruction, practice, and detailed reporting. It includes relevant program resources that span various grade levels and allows for differentiation to meet the needs of individual students.

Algebraic Reasoning

Grade 9

FLORIDA'S B.E.S.T. STANDARDS: MATHEMATICS	SADLIER-OXFORD ALGEBRA 1
MA.912.AR.3.4 Write a quadratic function to represent the relationship between two quantities from a graph, a written description or a table of values within a mathematical or real-world context. *Algebra 1 Example:* Given the table of values below from a quadratic function, write an equation of that function. x | −2 | −1 | 0 | 1 | 2 $f(x)$ | 2 | −1 | −2 | −1 | 2 **Benchmark Clarifications:** *Clarification 1:* Within the Algebra 1 course, a graph, written description or table of values must include the vertex and two points that are equidistant from the vertex. *Clarification 2:* Instruction includes the use of standard form and vertex form.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 10 QUADRATIC FUNCTIONS AND EQUATIONS** • 10-10B Write a Quadratic Function Rule—Online DIGITAL RESOURCES: CHAPTER COMMON CORE LESSON PLANS (TEACHER EDITION)* • 10-10B Write a Quadratic Function Rule DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 10 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 10 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary
MA.912.AR.3.5 Given the x-intercepts and another point on the graph of a quadratic function, write the equation for the function.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 10 QUADRATIC FUNCTIONS AND EQUATIONS** • 10-1 Identify Quadratic Functions and Their Graphs (write the equation for the function)—SB/TE pp. 246–249 STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 10-1 Identify Quadratic Functions and Their Graphs—PB pp. 243–246/TE pp. 249A–249B DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 10 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 10 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary
MA.912.AR.3.6 Given an expression or equation representing a quadratic function, determine the vertex and zeros and interpret them in terms of a real-world context.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 10 QUADRATIC FUNCTIONS AND EQUATIONS** • 10-2 Graph Quadratic Functions: Parabola—SB/TE pp. 250–253 • 10-2A Features of Quadratic Functions—Online STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 10-2 Graph Quadratic Functions: Parabola—PB pp. 247–248/TE pp. 253A–253B DIGITAL RESOURCES: CHAPTER COMMON CORE LESSON PLANS (TEACHER EDITION)* • 10-2A Features of Quadratic Functions DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 10 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 10 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary

*Digital resources available at SadlierConnect.com

***Full Access* is a data-driven solution with diagnostic assessments, instruction, practice, and detailed reporting. It includes relevant program resources that span various grade levels and allows for differentiation to meet the needs of individual students.

Algebraic Reasoning

Grade 9

FLORIDA'S B.E.S.T. STANDARDS: MATHEMATICS	SADLIER-OXFORD ALGEBRA 1
MA.912.AR.3.7 Given a table, equation or written description of a quadratic function, graph that function, and determine and interpret its key features. **Benchmark Clarifications:** *Clarification 1:* Key features are limited to domain; range; intercepts; intervals where the function is increasing, decreasing, positive or negative; end behavior; vertex; and symmetry. *Clarification 2:* Instruction includes the use of standard form and vertex form, and sketching a graph using the zeros and vertex. *Clarification 3:* Instruction includes representing the domain and range with inequality notation, interval notation or set-builder notation. *Clarification 4:* Within the Algebra 1 course, notations for domain and range are limited to inequality and set-builder.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **Chapter 10 Quadratic Functions and Equations** • 10-2A Features of Quadratic Functions—Online DIGITAL RESOURCES: CHAPTER COMMON CORE LESSON PLANS (TEACHER EDITION)* • 10-2A Features of Quadratic Functions DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 10 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 10 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary
MA.912.AR.3.8 Solve and graph mathematical and real-world problems that are modeled with quadratic functions. Interpret key features and determine domain constraints in terms of the context. *Algebra 1 Example:* The value of a classic car produced in 1972 can be modeled by the function $V(t) = 19.25t^2 - 440t + 3500$, where t is the number of years since 1972. In what year does the car's value start to increase? **Benchmark Clarifications:** *Clarification 1:* Key features are limited to domain; range; intercepts; intervals where the function is increasing, decreasing, positive or negative; end behavior; vertex; and symmetry. *Clarification 2:* Instruction includes the use of standard form and vertex form. *Clarification 3:* Instruction includes representing constraints with inequalities or set-builder notation. *Clarification 4:* Within the Algebra 1 course, notations for domain and range are limited to inequality and set-builder.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **Chapter 10 Quadratic Functions and Equations** • 10-2A Features of Quadratic Functions—Online • 10-3 Solve Quadratic Equations by Factoring—SB/TE pp. 254–257 • 10-4 Solve Verbal Problems Involving Quadratic Equations—SB/TE pp. 258–259 • 10-5 Solve Quadratic Equations by Completing the Square—SB/TE pp. 260–261 • 10-6 The Quadratic Formula and the Discriminant—SB/TE pp. 262–263 • 10-6A Complex Roots—Online • 10-7 Solve Quadratic Equations with the Quadratic Formula—SB/TE pp. 264–265 • 10-8 Solve Linear-Quadratic Systems—SB/TE pp. 266–269 • 10-8A Solve More Linear-Quadratic Systems—Online STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 10-3 Solve Quadratic Equations by Factoring—PB pp. 249–252/TE pp. 257A–257B • 10-4 Solve Verbal Problems Involving Quadratic Equations—PB pp. 253–254/TE pp. 259A–259B • 10-5 Solve Quadratic Equations by Completing the Square—PB pp. 255–256/TE pp. 261A–261B • 10-6 The Quadratic Formula and the Discriminant—PB pp. 257–258/TE pp. 263A–263B • 10-7 Solve Quadratic Equations with the Quadratic Formula—PB pp. 259–260/TE pp. 265A–265B • 10-8 Solve Linear-Quadratic Systems—PB pp. 261–262/TE pp. 269A–269B DIGITAL RESOURCES: CHAPTER COMMON CORE LESSON PLANS (TEACHER EDITION)* • 10-2A Features of Quadratic Functions • 10-6A Complex Roots • 10-8A Solve More Linear-Quadratic Systems DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 10 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 10 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary

*Digital resources available at SadlierConnect.com
***Full Access* is a data-driven solution with diagnostic assessments, instruction, practice, and detailed reporting. It includes relevant program resources that span various grade levels and allows for differentiation to meet the needs of individual students.

Algebraic Reasoning

Grade 9

FLORIDA'S B.E.S.T. STANDARDS: MATHEMATICS	SADLIER-OXFORD ALGEBRA 1
MA.912.AR.5.3 Given a mathematical or real-world context, classify an exponential function as representing growth or decay. **Benchmark Clarifications:** *Clarification 1:* Within the Algebra 1 course, exponential functions are limited to the forms $f(x) = ab^x$, where b is a whole number greater than 1 or a unit fraction, or $f(x) = a(1 \pm r)^x$, where $0 < r < 1$.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 13 EXPONENTIAL AND OTHER NONLINEAR FUNCTIONS** • 13-5 Exponential Growth and Decay—SB/TE pp. 342–345 • 13-8 Technology: Compare Exponential Growth and Decay—SB/TE pp. 350–351 STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 13-5 Exponential Growth and Decay—PB pp. 341–342/TE pp. 345A–345B • 13-8 Technology: Compare Exponential Growth and Decay—PB pp. 347–348/TE pp. 351A–351B DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 13 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 13 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary
MA.912.AR.5.4 Write an exponential function to represent a relationship between two quantities from a graph, a written description or a table of values within a mathematical or real-world context. **Benchmark Clarifications:** *Clarification 1:* Within the Algebra 1 course, exponential functions are limited to the forms $f(x) = ab^x$, where b is a whole number greater than 1 or a unit fraction, or or $f(x) = a(1 \pm r)^x$, where $0 < r < 1$. *Clarification 2:* Within the Algebra 1 course, tables are limited to having successive nonnegative integer inputs so that the function may be determined by finding ratios between successive outputs.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 13 EXPONENTIAL AND OTHER NONLINEAR FUNCTIONS** • 13-4 Identify Exponential Functions and Their Graphs—SB/TE pp. 338–341 • 13-4A Features of Exponential Functions—Online • 13-4B Solve Systems of Exponential Equations—Online • 13-5 Exponential Growth and Decay—SB/TE pp. 342–345 • 13-5A Transform Exponential Functions—Online • 13-5B Identify Linear and Exponential Functions—Online • 13-5C Compare Linear and Exponential Functions—Online • 13-5D Growth of Linear, Quadratic, and Exponential Functions—Online • 13-8 Technology: Compare Exponential Growth and Decay—SB/TE pp. 350–351 STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 13-4 Identify Exponential Functions and Their Graphs—PB pp. 337–340/TE pp. 341A–341B • 13-5 Exponential Growth and Decay—PB pp. 341–342/TE pp. 345A–345B • 13-8 Technology: Compare Exponential Growth and Decay—PB pp. 347–348/TE pp. 351A–351B DIGITAL RESOURCES: CHAPTER COMMON CORE LESSON PLANS (TEACHER EDITION)* • 13-4A Features of Exponential Functions • 13-4B Solve Systems of Exponential Equations • 13-5A Transform Exponential Functions • 13-5B Identify Linear and Exponential Functions • 13-5C Compare Linear and Exponential Functions • 13-5D Growth of Linear, Quadratic, and Exponential Functions DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 13 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 13 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary

*Digital resources available at SadlierConnect.com

***Full Access* is a data-driven solution with diagnostic assessments, instruction, practice, and detailed reporting. It includes relevant program resources that span various grade levels and allows for differentiation to meet the needs of individual students.

Algebraic Reasoning

Grade 9

FLORIDA'S B.E.S.T. STANDARDS: MATHEMATICS	SADLIER-OXFORD ALGEBRA 1
MA.912.AR.5.6 Given a table, equation or written description of an exponential function, graph that function and determine its key features. **Benchmark Clarifications:** *Clarification 1:* Key features are limited to domain; range; intercepts; intervals where the function is increasing, decreasing, positive or negative; constant percent rate of change; end behavior and asymptotes. *Clarification 2:* Instruction includes representing the domain and range with inequality notation, interval notation or set-builder notation. *Clarification 3:* Within the Algebra 1 course, notations for domain and range are limited to inequality and set-builder. *Clarification 4:* Within the Algebra 1 course, exponential functions are limited to the forms $f(x) = ab^x$, where b is a whole number greater than 1 or a unit fraction, or or $f(x) = a(1 \pm r)^x$, where $0 < r < 1$.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 13 EXPONENTIAL AND OTHER NONLINEAR FUNCTIONS** • 13-4 Identify Exponential Functions and Their Graphs—SB/TE pp. 338–341 • 13-4A Features of Exponential Functions—Online STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 13-4 Identify Exponential Functions and Their Graphs—PB pp. 337–340/TE pp. 341A–341B DIGITAL RESOURCES: CHAPTER COMMON CORE LESSON PLANS (TEACHER EDITION)* • 13-4A Features of Exponential Functions DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 13 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 13 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary
MA.912.AR.9.1 Given a mathematical or real-world context, write and solve a system of two-variable linear equations algebraically or graphically. **Benchmark Clarifications:** *Clarification 1:* Within this benchmark, the expectation is to solve systems using elimination, substitution and graphing. *Clarification 2:* Within the Algebra 1 course, the system is limited to two equations.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 6 SYSTEMS OF LINEAR EQUATIONS AND INEQUALITIES** • 6-1 Solve Systems of Linear Equations Graphically—SB/TE pp. 150–153 • 6-1A Solve Systems of Linear Equations Using Successive Approximations—Online • 6-2 Solve Systems of Linear Equations by Substitution—SB/TE pp. 154–155 • 6-2A Replacing an Equation in a System of Equations—Online • 6-3 Solve Systems of Linear Equations by Elimination—SB/TE pp. 156–157 • 6-4 Solve Equivalent Systems of Linear Equations—SB/TE pp. 158–159 • 6-5 Apply Systems of Linear Equations—SB/TE pp. 160–161 STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 6-1 Solve Systems of Linear Equations Graphically—PB pp. 141–144/TE pp. 153A–153B • 6-2 Solve Systems of Linear Equations by Substitution—PB pp. 145–146/TE pp. 155A–155B • 6-3 Solve Systems of Linear Equations by Elimination—PB pp. 147–148/TE pp. 157A–157B • 6-4 Solve Equivalent Systems of Linear Equations—PB pp. 149–150/TE pp. 159A–159B • 6-5 Apply Systems of Linear Equations—PB pp. 151–152/TE pp. 161A–161B DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 6 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 6 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary

*Digital resources available at SadlierConnect.com
***Full Access* is a data-driven solution with diagnostic assessments, instruction, practice, and detailed reporting. It includes relevant program resources that span various grade levels and allows for differentiation to meet the needs of individual students.

Algebraic Reasoning

Grade 9

FLORIDA'S B.E.S.T. STANDARDS: MATHEMATICS	SADLIER-OXFORD ALGEBRA 1
MA.912.AR.9.4 Graph the solution set of a system of two-variable linear inequalities. **Benchmark Clarifications:** *Clarification 1:* Instruction includes cases where one variable has a coefficient of zero. *Clarification 2:* Within the Algebra 1 course, the system is limited to two inequalities.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **Chapter 6 Systems of Linear Equations and Inequalities** • 6-6 Graph Systems of Linear Inequalities—SB/TE pp. 162–165 • 6-8 Technology: Graph Systems of Inequalities—SB/TE pp. 168–169 STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 6-6 Graph Systems of Linear Inequalities—PB pp. 153–154/TE pp. 165A–165B • 6-8 Technology: Graph Systems of Inequalities—PB pp. 157–158/TE pp. 169A–169B DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 6 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 6 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary
MA.912.AR.9.5 Given a real-world context, represent constraints as systems of linear equations or inequalities. Interpret solutions to problems as viable or non-viable options. **Benchmark Clarifications:** *Clarification 1:* Instruction focuses on analyzing a given function that models a real-world situation and writing constraints that are represented as linear equations or linear inequalities.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **Chapter 6 Systems of Linear Equations and Inequalities** • 6-1 Solve Systems of Linear Equations Graphically—SB/TE pp. 150–153 • 6-6 Graph Systems of Linear Inequalities—SB/TE pp. 162–165 • 6-8 Technology: Graph Systems of Inequalities—SB/TE pp. 168–169 STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 6-1 Solve Systems of Linear Equations Graphically—PB pp. 141–144/TE pp. 153A–153B • 6-6 Graph Systems of Linear Inequalities—PB pp. 153–154/TE pp. 165A–165B • 6-8 Technology: Graph Systems of Inequalities—PB pp. 157–158/TE pp. 169A–169B DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 6 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 6 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary

*Digital resources available at SadlierConnect.com
***Full Access* is a data-driven solution with diagnostic assessments, instruction, practice, and detailed reporting. It includes relevant program resources that span various grade levels and allows for differentiation to meet the needs of individual students.

Functions

Grade 9

FLORIDA'S B.E.S.T. STANDARDS: MATHEMATICS	SADLIER-OXFORD ALGEBRA 1
MA.912.F.1.1 Given an equation or graph that defines a function, classify the function type. Given an input-output table, determine a function type that could represent it. **Benchmark Clarifications:** *Clarification 1:* Within the Algebra 1 course, functions represented as tables are limited to linear, quadratic and exponential. *Clarification 2:* Within the Algebra 1 course, functions represented as equations or graphs are limited to vertical or horizontal translations or reflections over the x-axis of the following parent functions: $f(x) = x$, $f(x) = x^2$, $f(x) = x^3$, $f(x) = x^3$, $f(x) = \sqrt{x}$, $f(x) = \sqrt[3]{x}$, $f(x) = \lvert x \rvert$, $f(x) = 2^x$, $f(x) = \left(\frac{1}{2}\right)^x$.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 5 LINEAR FUNCTIONS** • 5-1 Identify Linear Functions and Their Graphs—SB/TE pp. 116–119 STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 5-1 Identify Linear Functions and Their Graphs—PB pp. 109–112/TE pp. 119A–119B DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 5 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 5 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary
MA.912.F.1.2 Given a function represented in function notation, evaluate the function for an input in its domain. For a real-world context, interpret the output. *Algebra 1 Example:* The function $f(x) = x, = \frac{x}{7} - 8$ models Alicia's position in miles relative to a water stand x minutes into a marathon. Evaluate and interpret for a quarter of an hour into the race.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 4 RELATIONS AND FUNCTIONS** • 4-2 Introduction to Functions (function notation)—SB/TE pp. 96–99 • 4-3 Write Function Rules—SB/TE pp. 100–101 STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 4-2 Introduction to Functions—PB pp. 91–92/TE pp. 99A–99B • 4-3 Write Function Rules—PB pp. 93–94/TE pp. 101A–101B DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Skills Update Instruction and Student Practice • The Coordinate Plane Chapter 4 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 4 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary Virtual Manipulatives: Data & Graphs • Coordinate Grid
MA.912.F.1.3 Calculate and interpret the average rate of change of a real-world situation represented graphically, algebraically or in a table over a specified interval. **Benchmark Clarifications:** *Clarification 1:* Instruction includes making the connection to the slope of a linear function.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 5 LINEAR FUNCTIONS** • 5-1 Identify Linear Functions and Their Graphs—SB/TE pp. 116–119 • 5-6A Average Rate of Change—Online STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 5-1 Identify Linear Functions and Their Graphs—PB pp. 109–112/TE pp. 119A–119B DIGITAL RESOURCES: CHAPTER COMMON CORE LESSON PLANS (TEACHER EDITION)* • 5-6A Average Rate of Change DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 5 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 5 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary

*Digital resources available at SadlierConnect.com

***Full Access* is a data-driven solution with diagnostic assessments, instruction, practice, and detailed reporting. It includes relevant program resources that span various grade levels and allows for differentiation to meet the needs of individual students.

Functions

Grade 9

FLORIDA'S B.E.S.T. STANDARDS: MATHEMATICS	SADLIER-OXFORD ALGEBRA 1
MA.912.F.1.5 Compare key features of linear and nonlinear functions each represented in the same way, such as algebraically, graphically, in tables or written descriptions. **Benchmark Clarifications:** *Clarification 1:* Key features are limited to domain; range; intercepts; intervals where the function is increasing, decreasing, positive or negative; end behavior and asymptotes. *Clarification 2:* Within the Algebra 1 course, functions other than linear, quadratic or exponential must be represented graphically. *Clarification 3:* Within the Algebra 1 course, instruction includes verifying that a quantity increasing exponentially eventually exceeds a quantity increasing linearly or quadratically.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **Chapter 5 Linear Functions** • 5-1 Identify Linear Functions and Their Graphs—SB/TE pp. 116–119 • 5-10A Compare Functions with Different Representations—Online STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 5-1 Identify Linear Functions and Their Graphs—PB pp. 109–112/TE pp. 119A–119B DIGITAL RESOURCES: CHAPTER COMMON CORE LESSON PLANS (TEACHER EDITION)* • 5-10A Compare Functions with Different Representations DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 5 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 5 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **Chapter 10 Quadratic Functions and Equations** • 10-2A Features of Quadratic Functions—Online • 10-10A Compare Quadratic Functions—Online DIGITAL RESOURCES: CHAPTER COMMON CORE LESSON PLANS (TEACHER EDITION)* • 10-2A Features of Quadratic Functions • 10-10A Compare Quadratic Functions DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 10 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 10 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **Chapter 13 Exponential and Other Nonlinear Functions** • 13-1 Inverse Variation—SB/TE pp. 330–331 • 13-2 Graph Rational Functions—SB/TE pp. 332–335 • 13-4 Identify Exponential Functions and Their Graphs—SB/TE pp. 338–341 • 13-4A Features of Exponential Functions—Online • 13-5C Compare Linear and Exponential Functions—Online STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 13-1 Inverse Variation—PB pp. 331–332/TE pp. 331A–331B • 13-2 Graph Rational Functions—PB pp. 333–334/TE pp. 335A–335B • 13-4 Identify Exponential Functions and Their Graphs—PB pp. 337–340/TE pp. 341A–341B DIGITAL RESOURCES: CHAPTER COMMON CORE LESSON PLANS (TEACHER EDITION)* • 13-4A Features of Exponential Functions • 13-5C Compare Linear and Exponential Functions DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 13 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 13 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary

*Digital resources available at SadlierConnect.com
***Full Access* is a data-driven solution with diagnostic assessments, instruction, practice, and detailed reporting. It includes relevant program resources that span various grade levels and allows for differentiation to meet the needs of individual students.

Functions

Grade 9

FLORIDA'S B.E.S.T. STANDARDS: MATHEMATICS	SADLIER-OXFORD ALGEBRA 1

MA.912.F.1.7 Determine whether a linear, quadratic or exponential function best models a given real-world situation.

Benchmark Clarifications:

Clarification 1: Instruction includes recognizing that linear functions model situations in which a quantity changes by a constant amount per unit interval; that quadratic functions model situations in which a quantity increases to a maximum, then begins to decrease or a quantity decreases to a minimum, then begins to increase; and that exponential functions model situations in which a quantity grows or decays by a constant percent per unit interval.

Clarification 2: Within this benchmark, the expectation is to identify the type of function from a written description or table.

continued

STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK*

Chapter 13 Exponential and Other Nonlinear Functions

- 13-5B Identify Linear and Exponential Functions (determine whether a situation is best modeled with a linear function or an exponential function)—Online

DIGITAL RESOURCES: CHAPTER COMMON CORE LESSON PLANS (TEACHER EDITION)*

- 13-5B Identify Linear and Exponential Functions

DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS**

Chapter 13 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys

Chapter 13 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary

Related content

STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK*

Chapter 5 Linear Functions

- 5-1 Identify Linear Functions and Their Graphs—SB/TE pp. 116–119
- 5-2 Direct Variation—SB/TE pp. 120–121

STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK*

- 5-1 Identify Linear Functions and Their Graphs—PB pp. 109–112/TE pp. 119A–119B
- 5-2 Direct Variation—PB pp. 113–114/TE pp. 121A–121B

DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS**

Chapter 5 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys

Chapter 5 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary

STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK*

Chapter 10 Quadratic Functions and Equations

- 10-1 Identify Quadratic Functions and Their Graphs—SB/TE pp. 246–249
- 10-2 Graph Quadratic Functions: Parabola—SB/TE pp. 250–253
- 10-2A Features of Quadratic Functions—Online

STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK*

- 10-1 Identify Quadratic Functions and Their Graphs—PB pp. 243–246/TE pp. 249A–249B
- 10-2 Graph Quadratic Functions: Parabola—PB pp. 247–248/TE pp. 253A–253B

DIGITAL RESOURCES: CHAPTER COMMON CORE LESSON PLANS (TEACHER EDITION)*

- 10-2A Features of Quadratic Functions

DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS**

Chapter 10 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys

Chapter 10 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary

continued

*Digital resources available at SadlierConnect.com

***Full Access* is a data-driven solution with diagnostic assessments, instruction, practice, and detailed reporting. It includes relevant program resources that span various grade levels and allows for differentiation to meet the needs of individual students.

Functions

Grade 9

FLORIDA'S B.E.S.T. STANDARDS: MATHEMATICS	SADLIER-OXFORD ALGEBRA 1
continued **MA.912.F.1.7** Determine whether a linear, quadratic or exponential function best models a given real-world situation. **Benchmark Clarifications:** *Clarification 1:* Instruction includes recognizing that linear functions model situations in which a quantity changes by a constant amount per unit interval; that quadratic functions model situations in which a quantity increases to a maximum, then begins to decrease or a quantity decreases to a minimum, then begins to increase; and that exponential functions model situations in which a quantity grows or decays by a constant percent per unit interval. *Clarification 2:* Within this benchmark, the expectation is to identify the type of function from a written description or table.	*continued* STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 13 EXPONENTIAL AND OTHER NONLINEAR FUNCTIONS** • 13-4A Features of Exponential Functions—Online DIGITAL RESOURCES: CHAPTER COMMON CORE LESSON PLANS (TEACHER EDITION)* • 13-4A Features of Exponential Functions DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 13 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 13 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary
MA.912.F.2.1 Identify the effect on the graph or table of a given function after replacing $f(x)$ by $f(x) + k$, $kf(x)$, $f(kx)$ and $f(x + k)$ for specific values of k. **Benchmark Clarifications:** *Clarification 1:* Within the Algebra 1 course, functions are limited to linear, quadratic and absolute value. *Clarification 2:* Instruction focuses on including positive and negative values for k. *continued*	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 5 LINEAR FUNCTIONS** • 5-5 Change the Form of a Linear Equation—SB/TE pp. 128–131 • 5-8 Absolute-Value Functions—SB/TE pp. 138–139 • 5-10A Compare Functions with Different Representations—Online STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 5-5 Change the Form of a Linear Equation—PB pp. 119–120/TE pp. 131A–131B • 5-8 Absolute-Value Functions—PB pp. 125–126/TE pp. 139A–139B DIGITAL RESOURCES: CHAPTER COMMON CORE LESSON PLANS (TEACHER EDITION)* • 5-10A Compare Functions with Different Representations DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 5 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 5 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 10 QUADRATIC FUNCTIONS AND EQUATIONS** • 10-1 Identify Quadratic Functions and Their Graphs—SB/TE pp. 246–249 • 10-2 Graph Quadratic Functions: Parabola—SB/TE pp. 250–253 • 10-10 Technology: Families of Quadratic Functions—SB/TE pp. 272–273 • 10-10A Compare Quadratic Functions—Online STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 10-1 Identify Quadratic Functions and Their Graphs—PB pp. 243–246/TE pp. 249A–249B • 10-2 Graph Quadratic Functions: Parabola—PB pp. 247–248/TE pp. 253A–253B • 10-10 Technology: Families of Quadratic Functions—PB pp. 265–266/TE pp. 273A–273B *continued*

*Digital resources available at SadlierConnect.com
***Full Access* is a data-driven solution with diagnostic assessments, instruction, practice, and detailed reporting. It includes relevant program resources that span various grade levels and allows for differentiation to meet the needs of individual students.

Functions

Grade 9

FLORIDA'S B.E.S.T. STANDARDS: MATHEMATICS	SADLIER-OXFORD ALGEBRA 1
continued **MA.912.F.2.1** Identify the effect on the graph or table of a given function after replacing $f(x)$ by $f(x) + k$, $kf(x)$, $f(kx)$ and $f(x + k)$ for specific values of k. **Benchmark Clarifications:** *Clarification 1:* Within the Algebra 1 course, functions are limited to linear, quadratic and absolute value. *Clarification 2:* Instruction focuses on including positive and negative values for k.	*continued* DIGITAL RESOURCES: CHAPTER COMMON CORE LESSON PLANS (TEACHER EDITION)* • 10-10A Compare Quadratic Functions DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 10 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 10 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary
MA.912.F.2.3 Given the graph or table of $f(x)$ and the graph or table of $f(x) + k$, $kf(x)$, $f(kx)$ and $f(x + k)$ state the type of transformation and find the value of the real number k. **Benchmark Clarifications:** *Clarification 1:* Within the Algebra 1 course, functions are limited to linear, quadratic and absolute value.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 5 LINEAR FUNCTIONS** • 5-5 Change the Form of a Linear Equation—SB/TE pp. 128–131 • 5-8 Absolute-Value Functions—SB/TE pp. 138–139 • 5-10A Compare Functions with Different Representations—Online STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 5-5 Change the Form of a Linear Equation—PB pp. 119–120/TE pp. 131A–131B • 5-8 Absolute-Value Functions—PB pp. 125–126/TE pp. 139A–139B DIGITAL RESOURCES: CHAPTER COMMON CORE LESSON PLANS (TEACHER EDITION)* • 5-10A Compare Functions with Different Representations DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 5 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 5 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 10 QUADRATIC FUNCTIONS AND EQUATIONS** • 10-2 Graph Quadratic Functions: Parabola (vertical shifts)—SB/TE pp. 250–253 • 10-10 Technology: Families of Quadratic Functions—SB/TE pp. 272–273 • 10-10A Compare Quadratic Functions—Online STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 10-2 Graph Quadratic Functions: Parabola—PB pp. 247–248/TE pp. 253A–253B • 10-10 Technology: Families of Quadratic Functions—PB pp. 265–266/TE pp. 273A–273B DIGITAL RESOURCES: CHAPTER COMMON CORE LESSON PLANS (TEACHER EDITION)* • 10-10A Compare Quadratic Functions DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 10 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 10 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary

*Digital resources available at SadlierConnect.com

***Full Access* is a data-driven solution with diagnostic assessments, instruction, practice, and detailed reporting. It includes relevant program resources that span various grade levels and allows for differentiation to meet the needs of individual students.

Functions

Grade 9

FLORIDA'S B.E.S.T. STANDARDS: MATHEMATICS	SADLIER-OXFORD ALGEBRA 1
MA.912.F.3.1 Given a mathematical or real-world context, combine two functions, limited to linear and quadratic, using arithmetic operations. When appropriate, include domain restrictions for the new function. *Example:* The quotient of the functions $f(x) = 3x^2 - 7x + 3$ and $g(x) = 6x - 1$ can be expressed as $h(x) = \frac{3x^2 - 7x + 3}{6x - 1}$, where the domain of $h(x)$ is $-\infty \leq x < \frac{1}{6}$ and $\frac{1}{6} < x \leq \infty$. **Benchmark Clarifications:** *Clarification 1:* Instruction includes representing domain restrictions with inequality notation, interval notation or set-builder notation.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 13 EXPONENTIAL AND OTHER NONLINEAR FUNCTIONS** • 13-5E Combine Functions—Online DIGITAL RESOURCES: CHAPTER COMMON CORE LESSON PLANS (TEACHER EDITION)* • 13-5E Combine Functions DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** **Chapter 13 Common Core Lesson Plans: Lesson 13-5E: Combine Functions** Chapter 13 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 13 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary

Financial Literacy

FLORIDA'S B.E.S.T. STANDARDS: MATHEMATICS	SADLIER-OXFORD ALGEBRA 1
MA.912.FL.1.2 Solve problems involving simple, compound and continuously compounded interest, including determining the present value and future value of money. **Benchmark Clarifications:** *Clarification 1:* Within the Algebra 1 course, interest is limited to simple and compound.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 11 RATIO, PROPORTION, AND TRIGONOMETRY** • 11-4 Apply Percents to Algebraic Problems (simple interest)—SB/TE pp. 288–289 STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 11-4 Apply Percents to Algebraic Problems—PB pp. 283–284/TE pp. 289A–289B DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 11 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 11 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 13 EXPONENTIAL AND OTHER NONLINEAR FUNCTIONS** • 13-5 Exponential Growth and Decay (compound interest)—SB/TE pp. 342–345 STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 13-5 Exponential Growth and Decay—PB pp. 341–342/TE pp. 345A–345B DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 13 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 13 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary

*Digital resources available at SadlierConnect.com
***Full Access* is a data-driven solution with diagnostic assessments, instruction, practice, and detailed reporting. It includes relevant program resources that span various grade levels and allows for differentiation to meet the needs of individual students.

Financial Literacy

Grade 9

FLORIDA'S B.E.S.T. STANDARDS: MATHEMATICS	SADLIER-OXFORD ALGEBRA 1
MA.912.FL.1.3 Explain the relationship between simple interest and linear growth.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 11 RATIO, PROPORTION, AND TRIGONOMETRY** • 11-4 Apply Percents to Algebraic Problems (simple interest)—SB/TE pp. 288–289 STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 11-4 Apply Percents to Algebraic Problems—PB pp. 283–284/TE pp. 289A–289B DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 11 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 11 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary
MA.912.FL.1.4 Explain the relationship between compound interest and exponential growth and the relationship between continuously compounded interest and exponential growth. Benchmark Clarifications: *Clarification 1:* Within the Algebra 1 course, exponential growth is limited to compound interest.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 13 EXPONENTIAL AND OTHER NONLINEAR FUNCTIONS** • 13-5 Exponential Growth and Decay (compound interest)—SB/TE pp. 342–345 STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 13-5 Exponential Growth and Decay—PB pp. 341–342/TE pp. 345A–345B DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 13 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 13 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary

*Digital resources available at SadlierConnect.com
***Full Access* is a data-driven solution with diagnostic assessments, instruction, practice, and detailed reporting. It includes relevant program resources that span various grade levels and allows for differentiation to meet the needs of individual students.

Data Analysis and Probability

Grade 9

FLORIDA'S B.E.S.T. STANDARDS: MATHEMATICS	SADLIER-OXFORD ALGEBRA 1
MA.912.DP.1.1 Given a set of data, select an appropriate method to represent the data, depending on whether it is numerical or categorical data and on whether it is univariate or bivariate. **Benchmark Clarifications:** *Clarification 1:* Instruction includes discussions regarding the strengths and weaknesses of each data display. *Clarification 2:* Numerical univariate includes histograms, stem-and-leaf plots, box plots and line plots; numerical bivariate includes scatter plots and line graphs; categorical univariate includes bar charts, circle graphs, line plots, frequency tables and relative frequency tables; and categorical bivariate includes segmented bar charts, joint frequency tables and joint relative frequency tables. *Clarification 3:* Instruction includes the use of appropriate units and labels and, where appropriate, using technology to create data displays.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **Chapter 14 Data Analysis and Probability** • 14-2A Standard Deviation (line plots)—Online • 14-3 Stem-and-Leaf Plots—SB/TE pp. 364–365 • 14-4 Histograms—SB/TE pp. 366–369 • 14-4A Two-Way Frequency Tables—Online • 14-5 Quartiles and Box-and-Whisker Plots—SB/TE pp. 370–371 • 14-5A Compare Data Sets—Online • 14-6 Percentiles—SB/TE pp. 372–373 • 14-7 Scatter Plots—SB/TE pp. 374–377 **Skills Update: Review of Prerequisite Skills** • XX. Double Line and Double Bar Graphs—SB p. 413 • XXI. Line Plots and Circle Graphs—SB pp. 413–414 STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 14-3 Stem-and-Leaf Plots—PB pp. 363–364/TE pp. 365A–365B • 14-4 Histograms—PB pp. 365–366/TE pp. 369A–369B • 14-5 Quartiles and Box-and-Whisker Plots—PB pp. 367–368/TE pp. 371A–371B • 14-6 Percentiles—PB pp. 369–370/TE pp. 373A–373B • 14-7 Scatter Plots—PB pp. 371–372/TE pp. 377A–377B DIGITAL RESOURCES: CHAPTER COMMON CORE LESSON PLANS (TEACHER EDITION)* • 14-2A Standard Deviation • 14-4A Two-Way Frequency Tables • 14-5A Compare Data Sets DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Skills Update: Student Practice • Double Line and Double Bar Graphs • Line Plots and Circle Graphs Chapter 14 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 14 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary Virtual Manipulatives: Data & Graphs • Bar Graphs • Histograms • Line Graphs • Line Plots • Picture Graphs • Circle Graphs • Box Plots
MA.912.DP.1.2 Interpret data distributions represented in various ways. State whether the data is numerical or categorical, whether it is univariate or bivariate and interpret the different components and quantities in the display. *continued*	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **Chapter 14 Data Analysis and Probability** • 14-2A Standard Deviation (line plots)—Online • 14-3 Stem-and-Leaf Plots—SB/TE pp. 364–365 • 14-4 Histograms—SB/TE pp. 366–369 • 14-4A Two-Way Frequency Tables—Online • 14-5 Quartiles and Box-and-Whisker Plots—SB/TE pp. 370–371 • 14-5A Compare Data Sets—Online • 14-6 Percentiles—SB/TE pp. 372–373 • 14-7 Scatter Plots—SB/TE pp. 374–377 *continued*

*Digital resources available at SadlierConnect.com
***Full Access* is a data-driven solution with diagnostic assessments, instruction, practice, and detailed reporting. It includes relevant program resources that span various grade levels and allows for differentiation to meet the needs of individual students.

Data Analysis and Probability

Grade 9

FLORIDA'S B.E.S.T. STANDARDS: MATHEMATICS	SADLIER-OXFORD ALGEBRA 1
continued	*continued*
MA.912.DP.1.2 Interpret data distributions represented in various ways. State whether the data is numerical or categorical, whether it is univariate or bivariate and interpret the different components and quantities in the display.	**SKILLS UPDATE** • XX. Double Line and Double Bar Graphs—SB p. 413 • XXI. Line Plots and Circle Graphs—SB pp. 413–414 STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 14-3 Stem-and-Leaf Plots—PB pp. 363–364/TE pp. 365A–365B • 14-4 Histograms—PB pp. 365–366/TE pp. 369A–369B • 14-5 Quartiles and Box-and-Whisker Plots—PB pp. 367–368/TE pp. 371A–371B • 14-6 Percentiles—PB pp. 369–370/TE pp. 373A–373B • 14-7 Scatter Plots—PB pp. 371–372/TE pp. 377A–377B DIGITAL RESOURCES: CHAPTER COMMON CORE LESSON PLANS (TEACHER EDITION)* • 14-2A Standard Deviation • 14-4A Two-Way Frequency Tables • 14-5A Compare Data Sets DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Skills Update: Student Practice • Understand Addition of Integers • Understand Subtraction of Integers Chapter 14 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 14 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary Virtual Manipulatives: Data & Graphs • Bar Graphs • Histograms • Line Graphs • Line Plots • Picture Graphs • Circle Graphs • Box Plots
MA.912.DP.1.3 Explain the difference between correlation and causation in the contexts of both numerical and categorical data. *Algebra 1 Example:* There is a strong positive correlation between the number of Nobel prizes won by country and the per capita chocolate consumption by country. Does this mean that increased chocolate consumption in America will increase the United States of America's chances of a Nobel prize winner?	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 14 DATA ANALYSIS AND PROBABILITY** • 14-7 Scatter Plots—SB/TE pp. 374–377 • 14-7A Fit a Function to Data—Online • 14-7B Correlation Coefficient—Online STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 14-7 Scatter Plots—PB pp. 371–372/TE pp. 377A–377B DIGITAL RESOURCES: CHAPTER COMMON CORE LESSON PLANS (TEACHER EDITION)* • 14-7A Fit a Function to Data • 14-7B Correlation Coefficient DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 14 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 14 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary

*Digital resources available at SadlierConnect.com
***Full Access* is a data-driven solution with diagnostic assessments, instruction, practice, and detailed reporting. It includes relevant program resources that span various grade levels and allows for differentiation to meet the needs of individual students.

Data Analysis and Probability

Grade 9

FLORIDA'S B.E.S.T. STANDARDS: MATHEMATICS	SADLIER-OXFORD ALGEBRA 1
MA.912.DP.1.4 Estimate a population total, mean or percentage using data from a sample survey; develop a margin of error through the use of simulation. *Algebra 1 Example:* Based on a survey of 100 households in Twin Lakes, the newspaper reports that the average number of televisions per household is 3.5 with a margin of error of ±0.6. The actual population mean can be estimated to be between 2.9 and 4.1 television per household. Since there are 5,500 households in Twin Lakes the estimated number of televisions is between 15,950 and 22,550. **Benchmark Clarifications:** *Clarification 1:* Within the Algebra 1 course, the margin of error will be given.	*Related content* STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 14 DATA ANALYSIS AND PROBABILITY** • 14-1 Sampling Techniques—SB/TE pp. 358–361 • 14-2 Measures of Central Tendency and Range—SB/TE pp. 362–363 • 14-2A Standard Deviation—Online • 14-5A Compare Data Sets—Online STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 14-1 Sampling Techniques—PB pp. 359–360/TE pp. 361A–361B • 14-2 Measures of Central Tendency and Range—PB pp. 361–362/TE pp. 363A–363B DIGITAL RESOURCES: CHAPTER COMMON CORE LESSON PLANS (TEACHER EDITION)* • 14-2A Standard Deviation • 14-5A Compare Data Sets DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 14 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 14 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary
MA.912.DP.2.3 Fit a linear function to bivariate numerical data that suggests a linear association and interpret the slope and y-intercept of the model. Use the model to solve real-world problems in terms of the context of the data. **Benchmark Clarifications:** *Clarification 1:* Instruction includes fitting a linear function both informally and formally with the use of technology.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 14 DATA ANALYSIS AND PROBABILITY** • 14-7 Scatter Plots—SB/TE pp. 374–377 • 14-7A Fit a Function to Data—Online STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 14-7 Scatter Plots—PB pp. 371–372/TE pp. 377A–377B DIGITAL RESOURCES: CHAPTER COMMON CORE LESSON PLANS (TEACHER EDITION)* • 14-7A Fit a Function to Data DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 14 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 14 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary
MA.912.DP.2.4 Given a scatter plot that represents bivariate numerical data, assess the fit of a given linear function by plotting and analyzing residuals. **Benchmark Clarifications:** *Clarification 1:* Within the Algebra 1 course, instruction includes determining the number of positive and negative residuals; the largest and smallest residuals; and the connection between outliers in the data set and the corresponding residuals.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 14 DATA ANALYSIS AND PROBABILITY** • 14-7A Fit a Function to Data (analyzing residuals)—Online DIGITAL RESOURCES: CHAPTER COMMON CORE LESSON PLANS (TEACHER EDITION)* • 14-7A Fit a Function to Data DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 14 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 14 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary

*Digital resources available at SadlierConnect.com

***Full Access* is a data-driven solution with diagnostic assessments, instruction, practice, and detailed reporting. It includes relevant program resources that span various grade levels and allows for differentiation to meet the needs of individual students.

Data Analysis and Probability

Grade 9

FLORIDA'S B.E.S.T. STANDARDS: MATHEMATICS	SADLIER-OXFORD ALGEBRA 1
MA.912.DP.2.5 Given a scatter plot with a line of fit and residuals, determine the strength and direction of the correlation. Interpret strength and direction within a real-world context. **Benchmark Clarifications:** *Clarification 1:* Instruction focuses on determining the direction by analyzing the slope and informally determining the strength by analyzing the residuals.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 14 DATA ANALYSIS AND PROBABILITY** • 14-7 Scatter Plots—SB/TE pp. 374–377 • 14-7B Correlation Coefficient—Online STUDENT PRACTICE BOOK & SB eBOOK/TEACHER'S EDITION & TE eBOOK* • 14-7 Scatter Plots—PB pp. 371–372/TE pp. 377A–377B DIGITAL RESOURCES: CHAPTER COMMON CORE LESSON PLANS (TEACHER EDITION)* • 14-7B Correlation Coefficient DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 14 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 14 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary
MA.912.DP.3.1 Construct a two-way frequency table summarizing bivariate categorical data. Interpret joint and marginal frequencies and determine possible associations in terms of a real-world context. *Algebra 1 Example:* Complete the frequency table below. Using the information in the table, it is possible to determine that the second column contains the numbers 70 and 240. This means that there are 70 students who play an instrument but do not have an A in math and the total number of students who play an instrument is 90. The ratio of the joint frequencies in the first column is 1 to 1 and the ratio in the second column is 7 to 24, indicating a strong positive association between playing an instrument and getting an A in math.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 14 DATA ANALYSIS AND PROBABILITY** • 14-4A Two-Way Frequency Tables—Online DIGITAL RESOURCES: CHAPTER COMMON CORE LESSON PLANS (TEACHER EDITION)* • 14-4A Two-Way Frequency Tables DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 14 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 14 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary

	Has an A in math	Doesn't have an A in math	Total
Plays an instrument	20		90
Doesn't play an instrument	20		
Total			350

*Digital resources available at SadlierConnect.com
***Full Access* is a data-driven solution with diagnostic assessments, instruction, practice, and detailed reporting. It includes relevant program resources that span various grade levels and allows for differentiation to meet the needs of individual students.

Data Analysis and Probability

Grade 9

FLORIDA'S B.E.S.T. STANDARDS: MATHEMATICS	SADLIER-OXFORD ALGEBRA 1
MA.912.DP.3.2 Given marginal and conditional relative frequencies, construct a two-way relative frequency table summarizing categorical bivariate data. *Algebra 1 Example:* A study shows that 9% of the population have diabetes and 91% do not. The study also shows that 95% of the people who do not have diabetes, test negative on a diabetes test while 80% who do have diabetes, test positive. Based on the given information, the following relative frequency table can be constructed. Positive / Negative / Total Has diabetes: 7.2% / 1.8% / 9% Doesn't have diabetes: 4.55% / 86.45% / 91% **Benchmark Clarifications:** *Clarification 1:* Construction includes cases where not all frequencies are given but enough are provided to be able to construct a two-way relative frequency table. *Clarification 2:* Instruction includes the use of a tree diagram when calculating relative frequencies to construct tables.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 14 DATA ANALYSIS AND PROBABILITY** • 14-4A Two-Way Frequency Tables—Online DIGITAL RESOURCES: CHAPTER COMMON CORE LESSON PLANS (TEACHER EDITION)* • 14-4A Two-Way Frequency Tables DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 14 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 14 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary
MA.912.DP.3.3 Given a two-way relative frequency table or segmented bar graph summarizing categorical bivariate data, interpret joint, marginal and conditional relative frequencies in terms of a real-world context. *Algebra 1 Example:* Given the relative frequency table below, the ratio of true positives to false positives can be determined as 7.2 to 4.55, which is about 3 to 2, meaning that a randomly selected person who tests positive for diabetes is about 50% more likely to have diabetes than not have it. Positive / Negative / Total Has diabetes: 7.2% / 1.8% / 9% Doesn't have diabetes: 4.55% / 86.45% / 91% **Benchmark Clarifications:** *Clarification 1:* Instruction includes problems involving false positive and false negatives.	STUDENT SOURCEBOOK & eBOOK*/TEACHER'S EDITION & eBOOK* **CHAPTER 14 DATA ANALYSIS AND PROBABILITY** • 14-4A Two-Way Frequency Tables (joint, marginal, conditional relative frequencies)—Online DIGITAL RESOURCES: CHAPTER COMMON CORE LESSON PLANS (TEACHER EDITION)* • 14-4A Two-Way Frequency Tables DIGITAL RESOURCES (TEACHER EDITION)*/FULL ACCESS** Chapter 14 Teacher Resources: Professional Development; Lesson Planner; Pacing Guide; Common Core Lesson Plans; Assessment Analysis; Meeting Individual Needs; Practice Book Answer Keys Chapter 14 Additional Resources: Student Practice: Each Lesson, Enrichment, Test Prep, Vocabulary Development, Practice Chapter Test, PSAT/NMSQT® Review, Spiral Review Study Sheet; Differentiated Instruction; Assessments; Blackline Masters; Tables and Formulas; Games and Study Aids; Math Contest Questions; Student Resources: Glossary

*Digital resources available at SadlierConnect.com
***Full Access* is a data-driven solution with diagnostic assessments, instruction, practice, and detailed reporting. It includes relevant program resources that span various grade levels and allows for differentiation to meet the needs of individual students.