

Prentice Hall Algebra 1 © 2006, (Smith/Charles)

Correlated to:

**Arkansas Mathematics Curriculum, Algebra 1
(Grades 9-12)**

ARKANSAS MATHEMATICS CURRICULUM, ALGEBRA 1	PAGE(S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
Algebra I	
<p>These are the SLEs that must be mastered in Algebra I. Other algebraic properties should be taught to adequately prepare students for Geometry and Algebra II. Students should be able to describe and translate among graphic, algebraic, numeric, tabular, and verbal representations of relations and use those representations to solve problems. The process of collecting and analyzing data should be embedded throughout this course. Appropriate technology and manipulatives should be used regularly for instruction and assessment. Students should be able to judge the meaning, utility, and reasonableness of the results of symbol manipulations, including those carried out by technology.</p>	
Language of Algebra	
<p>Content Standard 1. Students will develop the language of algebra including specialized vocabulary, symbols, and operations.</p>	
<p>LA.1.AI.1 Evaluate algebraic expressions, including radicals, by applying the order of operations</p>	<p>SE/TE: 4-8, 16-18, 22-23, 47-48, 50, 52, 76, 79-80, 97, 118, 124, 141, 182, 186, 198, 202, 207, 225, 227-229, 248, 257, 259, 302, 351, 354, 356, , 487-490, 534, 612</p> <p>TR: Mathematics Standardized Test Prep Workbook; Practice Workbook; Spanish Practice Workbook; Student Manipulatives Kit; Assessment Success Kit; Graphing Calculator Handbook; Calculator Based Laboratory™ (CBL) Activities; Prentice Hall Skills Intervention Kit; Transparencies: First Five Minutes, Student Edition Answers, Test-Taking Tips</p> <p>TECH: Resource Pro® CD-ROM with Planning Express®; Computer Item Generator CD-ROM; Secondary Math Lab Toolkit™; Student Tutorial CD-ROM; Web Extension: www.phschool.com; Wide World of Mathematics™ Videos; Algebra Instructional Videos: A Step by Step Guide to Key Concepts</p>
<p>LA.1.AI.2 Translate word phrases and sentences into expressions, equations, and inequalities, and vice versa</p>	<p>SE/TE: 29-32, 43, 49, 51, 98-101, 109, 111, 114-118, 119-124, 130-135, 138, 147, 158-162, 165-169, 170, 186, 187-191, 199, 208, 244, 260, 280, 290, 351, 352, 356, 529-530</p> <p>TR: Mathematics Standardized Test Prep Workbook; Practice Workbook; Spanish Practice Workbook; Student Manipulatives Kit; Assessment Success Kit; Graphing Calculator Handbook; Calculator Based Laboratory™ (CBL) Activities; Prentice Hall</p>

Prentice Hall Algebra 1 © 2006, (Smith/Charles)

Correlated to:

Arkansas Mathematics Curriculum, Algebra 1, (Grades 9-12)

ARKANSAS MATHEMATICS CURRICULUM, ALGEBRA 1		PAGE(S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))	
	(Continued)		(Continued)
LA.1.AI.2	Translate word phrases and sentences into expressions, equations, and inequalities, and vice versa	TR:	Skills Intervention Kit; Transparencies: First Five Minutes, Student Edition Answers, Test-Taking Tips
		TECH:	Resource Pro® CD-ROM with Planning Express®; Computer Item Generator CD-ROM; Secondary Math Lab Toolkit™; Student Tutorial CD-ROM; Web Extension: www.phschool.com; Wide World of Mathematics™ Videos; Algebra Instructional Videos: A Step by Step Guide to Key Concepts
LA.1.AI.3	Apply the laws of (integral) exponents	SE/TE:	204-208, 209-213, 214-216, 235, 248, 256, 259, 260, 265, 277, 296, 332, 341, 353, 379, 386, 391, 444, 474, 480, 497, 613
		TR:	Mathematics Standardized Test Prep Workbook; Practice Workbook; Spanish Practice Workbook; Student Manipulatives Kit; Assessment Success Kit; Graphing Calculator Handbook; Calculator Based Laboratory™ (CBL) Activities; Prentice Hall Skills Intervention Kit; Transparencies: First Five Minutes, Student Edition Answers, Test-Taking Tips
		TECH:	Resource Pro® CD-ROM with Planning Express®; Computer Item Generator CD-ROM; Secondary Math Lab Toolkit™; Student Tutorial CD-ROM; Web Extension: www.phschool.com; Wide World of Mathematics™ Videos; Algebra Instructional Videos: A Step by Step Guide to Key Concepts
LA.1.AI.4	Solve problems involving scientific notation	SE/TE:	217-220, 230, 252, 257, 259, 265, 272, 296, 322, 354, 530, 549, 556, 597
		TR:	Mathematics Standardized Test Prep Workbook; Practice Workbook; Spanish Practice Workbook; Student Manipulatives Kit; Assessment Success Kit; Graphing Calculator Handbook; Calculator Based Laboratory™ (CBL) Activities; Prentice Hall Skills Intervention Kit; Transparencies: First Five Minutes, Student Edition Answers, Test-Taking Tips
		TECH:	Resource Pro® CD-ROM with Planning Express®; Computer Item Generator CD-ROM; Secondary Math Lab Toolkit™; Student Tutorial CD-ROM; Web Extension: www.phschool.com; Wide World of

Prentice Hall Algebra 1 © 2006, (Smith/Charles)

Correlated to:

Arkansas Mathematics Curriculum, Algebra 1, (Grades 9-12)

ARKANSAS MATHEMATICS CURRICULUM, ALGEBRA 1		PAGE(S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
LA.1.AI.4	(Continued) Solve problems involving scientific notation	(Continued) TECH: Mathematics™ Videos; Algebra Instructional Videos: A Step by Step Guide to Key Concepts
LA.1.AI.5	Perform polynomial operations (addition, subtraction, multiplication) with and without manipulatives	SE/TE: 231-235, 236-239, 240-244, 245-248, 249-252, 257-259, 260, 269, 272, 284, 308, 337, 341, 354, 372, 391, 430, 530, 574, 613 TR: Mathematics Standardized Test Prep Workbook; Practice Workbook; Spanish Practice Workbook; Student Manipulatives Kit; Assessment Success Kit; Graphing Calculator Handbook; Calculator Based Laboratory™ (CBL) Activities; Prentice Hall Skills Intervention Kit; Transparencies: First Five Minutes, Student Edition Answers, Test-Taking Tips TECH: Resource Pro® CD-ROM with Planning Express®; Computer Item Generator CD-ROM; Secondary Math Lab Toolkit™; Student Tutorial CD-ROM; Web Extension: www.phschool.com; Wide World of Mathematics™ Videos; Algebra Instructional Videos: A Step by Step Guide to Key Concepts
LA.1.AI.6	Simplify algebraic fractions by factoring	SE/TE: 12-14, 47, 50, 52, 198, 351, 432-435, 436-438, 439-441, 442-444, 445-449 TR: Mathematics Standardized Test Prep Workbook; Practice Workbook; Spanish Practice Workbook; Student Manipulatives Kit; Assessment Success Kit; Graphing Calculator Handbook; Calculator Based Laboratory™ (CBL) Activities; Prentice Hall Skills Intervention Kit; Transparencies: First Five Minutes, Student Edition Answers, Test-Taking Tips TECH: Resource Pro® CD-ROM with Planning Express®; Computer Item Generator CD-ROM; Secondary Math Lab Toolkit™; Student Tutorial CD-ROM; Web Extension: www.phschool.com; Wide World of Mathematics™ Videos; Algebra Instructional Videos: A Step by Step Guide to Key Concepts
LA.1.AI.7	Recognize when an expression is undefined	SE/TE: 432-435, 452, 487-490

Prentice Hall Algebra 1 © 2006, (Smith/Charles)

Correlated to:

Arkansas Mathematics Curriculum, Algebra 1, (Grades 9-12)

ARKANSAS MATHEMATICS CURRICULUM, ALGEBRA 1		PAGE(S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
LA.1.AI.8	Simplify radical expressions such as $3/\sqrt{7}$	<p>SE/TE: 491-494, 498-502, 506, 512, 518, 533, 541, 546, 569, 574, 585, 601, 616</p> <p>TR: Mathematics Standardized Test Prep Workbook; Practice Workbook; Spanish Practice Workbook; Student Manipulatives Kit; Assessment Success Kit; Graphing Calculator Handbook; Calculator Based Laboratory™ (CBL) Activities; Prentice Hall Skills Intervention Kit; Transparencies: First Five Minutes, Student Edition Answers, Test-Taking Tips</p> <p>TECH: Resource Pro® CD-ROM with Planning Express®; Computer Item Generator CD-ROM; Secondary Math Lab Toolkit™; Student Tutorial CD-ROM; Web Extension: www.phschool.com; Wide World of Mathematics™ Videos; Algebra Instructional Videos: A Step by Step Guide to Key Concepts</p>
LA.1.AI.9	Add, subtract, and multiply simple radical expressions like $3\sqrt{20} + 7\sqrt{5}$ and $4\sqrt{5} * 2\sqrt{3}$	<p>SE/TE: 495-496, 504-506, 518, 526-528, 533, 616</p> <p>TR: Mathematics Standardized Test Prep Workbook; Practice Workbook; Spanish Practice Workbook; Student Manipulatives Kit; Assessment Success Kit; Graphing Calculator Handbook; Calculator Based Laboratory™ (CBL) Activities; Prentice Hall Skills Intervention Kit; Transparencies: First Five Minutes, Student Edition Answers, Test-Taking Tips</p> <p>TECH: Resource Pro® CD-ROM with Planning Express®; Computer Item Generator CD-ROM; Secondary Math Lab Toolkit™; Student Tutorial CD-ROM; Web Extension: www.phschool.com; Wide World of Mathematics™ Videos; Algebra Instructional Videos: A Step by Step Guide to Key Concepts</p>

Prentice Hall Algebra 1 © 2006, (Smith/Charles)

Correlated to:

Arkansas Mathematics Curriculum, Algebra 1, (Grades 9-12)

ARKANSAS MATHEMATICS CURRICULUM, ALGEBRA 1		PAGE(S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
Solving Equation and Inequalities		
Content Standard 2. Students will write, with and without appropriate technology equivalent forms of equations, inequalities, and systems of equations and solve with fluency.		
SEI.2.AI.1	Solve multi-step equations and inequalities with rational coefficients <ul style="list-style-type: none"> · numerically (from a table or guess and check) · algebraically (including the use of manipulatives) · graphically · technologically 	SE/TE: 125-129, 136-138, 139-141, 144, 147, 148-151, 162, 165-169, 170, 174, 175-179, 183-186, 191, 196-197, 200-201, 208, 213, 225, 239, 244, 260, 269, 286-290, 300-301, 302, 312, 322, 327, 332, 352-353, 355, 356, 361, 366, 386, 391, 398, 412, 424, 430, 435, 438, 441, 529-531, 574, 612-613 TR: Mathematics Standardized Test Prep Workbook; Practice Workbook; Spanish Practice Workbook; Student Manipulatives Kit; Assessment Success Kit; Graphing Calculator Handbook; Calculator Based Laboratory™ (CBL) Activities; Prentice Hall Skills Intervention Kit; Transparencies: First Five Minutes, Student Edition Answers, Test-Taking Tips TECH: Resource Pro® CD-ROM with Planning Express®; Computer Item Generator CD-ROM; Secondary Math Lab Toolkit™; Student Tutorial CD-ROM; Web Extension: www.phschool.com ; Wide World of Mathematics™ Videos; Algebra Instructional Videos: A Step by Step Guide to Key Concepts
SEI.2.AI.2	Solve systems of two linear equations <ul style="list-style-type: none"> · numerically (from a table or guess and check) · algebraically (including the use of manipulatives) · graphically · technologically 	SE/TE: 358-361, 362-366, 367-372, 373-379, 380-386, 387-391, 395-397, 398, 404, 409, 412, 424, 435, 438, 441, 474, 486, 494, 512, 531, 541, 601, 614 TR: Mathematics Standardized Test Prep Workbook; Practice Workbook; Spanish Practice Workbook; Student Manipulatives Kit; Assessment Success Kit; Graphing Calculator Handbook; Calculator Based Laboratory™ (CBL) Activities; Prentice Hall Skills Intervention Kit; Transparencies: First Five Minutes, Student Edition Answers, Test-Taking Tips TECH: Resource Pro® CD-ROM with Planning Express®; Computer Item Generator CD-ROM; Secondary Math Lab Toolkit™; Student Tutorial CD-ROM; Web Extension: www.phschool.com ; Wide World of Mathematics™ Videos; Algebra Instructional Videos: A Step by Step Guide to Key Concepts

Prentice Hall Algebra 1 © 2006, (Smith/Charles)

Correlated to:

Arkansas Mathematics Curriculum, Algebra 1, (Grades 9-12)

ARKANSAS MATHEMATICS CURRICULUM, ALGEBRA 1		PAGE(S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
SEI.2.AI.3	Solve linear formulas and literal equations for a specified variable (Ex. Solve for p in $I = prt$.)	SE/TE: 142-144, 151, 167-168, 201, 302, 312, 317, 353, 441, 534, 612, 648 TR: Mathematics Standardized Test Prep Workbook; Practice Workbook; Spanish Practice Workbook; Student Manipulatives Kit; Assessment Success Kit; Graphing Calculator Handbook; Calculator Based Laboratory™ (CBL) Activities; Prentice Hall Skills Intervention Kit; Transparencies: First Five Minutes, Student Edition Answers, Test-Taking Tips TECH: Resource Pro® CD-ROM with Planning Express®; Computer Item Generator CD-ROM; Secondary Math Lab Toolkit™; Student Tutorial CD-ROM; Web Extension: www.phschool.com ; Wide World of Mathematics™ Videos; Algebra Instructional Videos: A Step by Step Guide to Key Concepts
SEI.2.AI.4	Solve and graph simple absolute value equations and inequalities Ex. $ x = 5$, $ x \leq 5$, $ x > 5$	SE/TE: 145-147, 167-168, 179, 201, 277, 353, 413-415, 531, 615 TR: Mathematics Standardized Test Prep Workbook; Practice Workbook; Spanish Practice Workbook; Student Manipulatives Kit; Assessment Success Kit; Graphing Calculator Handbook; Calculator Based Laboratory™ (CBL) Activities; Prentice Hall Skills Intervention Kit; Transparencies: First Five Minutes, Student Edition Answers, Test-Taking Tips TECH: Resource Pro® CD-ROM with Planning Express®; Computer Item Generator CD-ROM; Secondary Math Lab Toolkit™; Student Tutorial CD-ROM; Web Extension: www.phschool.com ; Wide World of Mathematics™ Videos; Algebra Instructional Videos: A Step by Step Guide to Key Concepts
SEI.2.AI.5	Solve real world problems that involve a combination of rates, proportions and percents	SE/TE: 149-151, 152-157, 167, 169, 201, 353, 459, 530, 612-613 TR: Mathematics Standardized Test Prep Workbook; Practice Workbook; Spanish Practice Workbook; Student Manipulatives Kit; Assessment Success Kit; Graphing Calculator Handbook; Calculator Based Laboratory™ (CBL) Activities; Prentice Hall Skills Intervention Kit; Transparencies: First Five Minutes, Student Edition Answers, Test-Taking Tips

Prentice Hall Algebra 1 © 2006, (Smith/Charles)

Correlated to:

Arkansas Mathematics Curriculum, Algebra 1, (Grades 9-12)

ARKANSAS MATHEMATICS CURRICULUM, ALGEBRA 1		PAGE(S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
SEI.2.AI.5	(Continued) Solve real world problems that involve a combination of rates, proportions and percents	(Continued) TECH: Resource Pro® CD-ROM with Planning Express®; Computer Item Generator CD-ROM; Secondary Math Lab Toolkit™; Student Tutorial CD-ROM; Web Extension: www.phschool.com; Wide World of Mathematics™ Videos; Algebra Instructional Videos: A Step by Step Guide to Key Concepts
SEI.2.AI.6	Solve problems involving direct variation and indirect (inverse) variation to model rates of change	SE/TE: 557-560, 561-564, 572, 597, 617 TR: Mathematics Standardized Test Prep Workbook; Practice Workbook; Spanish Practice Workbook; Student Manipulatives Kit; Assessment Success Kit; Graphing Calculator Handbook; Calculator Based Laboratory™ (CBL) Activities; Prentice Hall Skills Intervention Kit; Transparencies: First Five Minutes, Student Edition Answers, Test-Taking Tips TECH: Resource Pro® CD-ROM with Planning Express®; Computer Item Generator CD-ROM; Secondary Math Lab Toolkit™; Student Tutorial CD-ROM; Web Extension: www.phschool.com; Wide World of Mathematics™ Videos; Algebra Instructional Videos: A Step by Step Guide to Key Concepts
SEI.2.AI.7	Use coordinate geometry to represent and/or solve problems (midpoint, length of a line segment, and Pythagorean Theorem)	SE/TE: 332 (#33-35), 513, 514-518
SEI.2.AI.8	Communicate real world problems graphically, algebraically, numerically and verbally	SE/TE: 38-39, 44-45, 46, 87, 98-99, 109, 117, 122-123, 157, 159, 163, 164, 194-195, 253-255, 274, 296, 337, 344-346, 379, 385, 394, 475-476, 507-508, 570, 584, 606, 607-608 TR: Mathematics Standardized Test Prep Workbook; Practice Workbook; Spanish Practice Workbook; Student Manipulatives Kit; Assessment Success Kit; Graphing Calculator Handbook; Calculator Based Laboratory™ (CBL) Activities; Prentice Hall Skills Intervention Kit; Transparencies: First Five Minutes, Student Edition Answers, Test-Taking Tips TECH: Resource Pro® CD-ROM with Planning Express®; Computer Item Generator CD-ROM; Secondary Math Lab Toolkit™;

Prentice Hall Algebra 1 © 2006, (Smith/Charles)

Correlated to:

Arkansas Mathematics Curriculum, Algebra 1, (Grades 9-12)

ARKANSAS MATHEMATICS CURRICULUM, ALGEBRA 1		PAGE(S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
(Continued)		(Continued)
SEI.2.AI.8	Communicate real world problems graphically, algebraically, numerically and verbally	TECH: Student Tutorial CD-ROM; Web Extension: www.phschool.com; Wide World of Mathematics™ Videos; Algebra Instructional Videos: A Step by Step Guide to Key Concepts
Linear Functions		
Content Standard 3. Students will analyze functions by investigating rates of change, intercepts, and zeros.		
LF.3.AI.1	Distinguish between functions and non-functions/relations by inspecting graphs, ordered pairs, mapping diagrams and/or tables of data	SE/TE: 536-541, 542-546, 571, 573 TR: Mathematics Standardized Test Prep Workbook; Practice Workbook; Spanish Practice Workbook; Student Manipulatives Kit; Assessment Success Kit; Graphing Calculator Handbook; Calculator Based Laboratory™ (CBL) Activities; Prentice Hall Skills Intervention Kit; Transparencies: First Five Minutes, Student Edition Answers, Test-Taking Tips TECH: Resource Pro® CD-ROM with Planning Express®; Computer Item Generator CD-ROM; Secondary Math Lab Toolkit™; Student Tutorial CD-ROM; Web Extension: www.phschool.com; Wide World of Mathematics™ Videos; Algebra Instructional Videos: A Step by Step Guide to Key Concepts
LF.3.AI.2	Determine domain and range of a relation from an algebraic expression, graphs, set of ordered pairs, or table of data	SE/TE: 536-541, 542-546, 554, 571 TR: Mathematics Standardized Test Prep Workbook; Practice Workbook; Spanish Practice Workbook; Student Manipulatives Kit; Assessment Success Kit; Graphing Calculator Handbook; Calculator Based Laboratory™ (CBL) Activities; Prentice Hall Skills Intervention Kit; Transparencies: First Five Minutes, Student Edition Answers, Test-Taking Tips TECH: Resource Pro® CD-ROM with Planning Express®; Computer Item Generator CD-ROM; Secondary Math Lab Toolkit™; Student Tutorial CD-ROM; Web Extension: www.phschool.com; Wide World of Mathematics™ Videos; Algebra Instructional Videos: A Step by Step Guide to Key Concepts

Prentice Hall Algebra 1 © 2006, (Smith/Charles)

Correlated to:

Arkansas Mathematics Curriculum, Algebra 1, (Grades 9-12)

ARKANSAS MATHEMATICS CURRICULUM, ALGEBRA 1		PAGE(S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
LF.3.AI.3	Know and/or use function notation, including evaluating functions for given values in their domain	SE/TE: 536-541, 556, 560, 571, 573, 585, 616 TR: Mathematics Standardized Test Prep Workbook; Practice Workbook; Spanish Practice Workbook; Student Manipulatives Kit; Assessment Success Kit; Graphing Calculator Handbook; Calculator Based Laboratory™ (CBL) Activities; Prentice Hall Skills Intervention Kit; Transparencies: First Five Minutes, Student Edition Answers, Test-Taking Tips TECH: Resource Pro® CD-ROM with Planning Express®; Computer Item Generator CD-ROM; Secondary Math Lab Toolkit™; Student Tutorial CD-ROM; Web Extension: www.phschool.com; Wide World of Mathematics™ Videos; Algebra Instructional Videos: A Step by Step Guide to Key Concepts
LF.3.AI.4	Identify independent variables and dependent variables in various representational modes: words, symbols, and/or graphs	SE/TE: 536-541, 542-546, 547-549
LF.3.AI.5	Interpret the rate of change/slope and intercepts within the context of everyday life (Ex. telephone charges based on base rate (y-intercept) plus rate per minute (slope))	SE/TE: 318, 322 (#32-35), 333-337, 376, 547-549
LF.3.AI.6	Calculate the slope given <ul style="list-style-type: none"> · two points · the graph of a line · the equation of a line 	SE/TE: 318-322, 323-327, 337, 341, 348, 350, 355, 361, 379, 412, 597, 614 TR: Mathematics Standardized Test Prep Workbook; Practice Workbook; Spanish Practice Workbook; Student Manipulatives Kit; Assessment Success Kit; Graphing Calculator Handbook; Calculator Based Laboratory™ (CBL) Activities; Prentice Hall Skills Intervention Kit; Transparencies: First Five Minutes, Student Edition Answers, Test-Taking Tips TECH: Resource Pro® CD-ROM with Planning Express®; Computer Item Generator CD-ROM; Secondary Math Lab Toolkit™; Student Tutorial CD-ROM; Web Extension: www.phschool.com; Wide World of Mathematics™ Videos; Algebra Instructional Videos: A Step by Step Guide to Key Concepts

Prentice Hall Algebra 1 © 2006, (Smith/Charles)

Correlated to:

Arkansas Mathematics Curriculum, Algebra 1, (Grades 9-12)

ARKANSAS MATHEMATICS CURRICULUM, ALGEBRA 1		PAGE(S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
LF.3.AI.7	Determine by using slope whether a pair of lines are parallel, perpendicular, or neither	SE/TE: 338-341, 349-350, 355, 366, 372, 441, 450 TR: Mathematics Standardized Test Prep Workbook; Practice Workbook; Spanish Practice Workbook; Student Manipulatives Kit; Assessment Success Kit; Graphing Calculator Handbook; Calculator Based Laboratory™ (CBL) Activities; Prentice Hall Skills Intervention Kit; Transparencies: First Five Minutes, Student Edition Answers, Test-Taking Tips TECH: Resource Pro® CD-ROM with Planning Express®; Computer Item Generator CD-ROM; Secondary Math Lab Toolkit™; Student Tutorial CD-ROM; Web Extension: www.phschool.com; Wide World of Mathematics™ Videos; Algebra Instructional Videos: A Step by Step Guide to Key Concepts
LF.3.AI.8	Write an equation in slope-intercept form given <ul style="list-style-type: none"> · two points · a point and y-intercept · x-intercept and y-intercept · a point and slope · a table of data · the graph of a line 	SE/TE: 328-332, 333-337, 341, 348-350, 355, 361, 379, 404, 409, 438, 531, 541, 606, 614, 656 TR: Mathematics Standardized Test Prep Workbook; Practice Workbook; Spanish Practice Workbook; Student Manipulatives Kit; Assessment Success Kit; Graphing Calculator Handbook; Calculator Based Laboratory™ (CBL) Activities; Prentice Hall Skills Intervention Kit; Transparencies: First Five Minutes, Student Edition Answers, Test-Taking Tips TECH: Resource Pro® CD-ROM with Planning Express®; Computer Item Generator CD-ROM; Secondary Math Lab Toolkit™; Student Tutorial CD-ROM; Web Extension: www.phschool.com; Wide World of Mathematics™ Videos; Algebra Instructional Videos: A Step by Step Guide to Key Concepts
LF.3.AI.9	Describe the effects of parameter changes, slope and/or y-intercept, on graphs of linear functions and vice versa	SE/TE: 316 (#45-49, 51), 322 (Journal), 326 (#40), 327 (Connection)

Prentice Hall Algebra 1 © 2006, (Smith/Charles)

Correlated to:

Arkansas Mathematics Curriculum, Algebra 1, (Grades 9-12)

ARKANSAS MATHEMATICS CURRICULUM, ALGEBRA 1		PAGE(S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
Non-linear Functions		
Content Standard 4. Students will compare the properties in the family of functions.		
NLF.4.AI.1	Factoring polynomials <ul style="list-style-type: none"> · greatest common factor · binomials (difference of squares) · trinomials 	SE/TE: 262-265, 266-269, 270-272, 273-277, 278-280, 281-282, 283-284, 290, 296, 299-301, 308, 312, 317, 322, 327, 332, 337, 341, 354-355, 361, 366, 372, 379, 391, 404, 412, 424, 430, 474, 480, 497, 502, 531, 579, 594, 614 TR: Mathematics Standardized Test Prep Workbook; Practice Workbook; Spanish Practice Workbook; Student Manipulatives Kit; Assessment Success Kit; Graphing Calculator Handbook; Calculator Based Laboratory™ (CBL) Activities; Prentice Hall Skills Intervention Kit; Transparencies: First Five Minutes, Student Edition Answers, Test-Taking Tips TECH: Resource Pro® CD-ROM with Planning Express®; Computer Item Generator CD-ROM; Secondary Math Lab Toolkit™; Student Tutorial CD-ROM; Web Extension: www.phschool.com; Wide World of Mathematics™ Videos; Algebra Instructional Videos: A Step by Step Guide to Key Concepts
NLF.4.AI.2	Determine minimum, maximum, vertex, and zeros, given the graph	SE/TE: 553-556
NLF.4.AI.3	Solve quadratic equations using the appropriate methods with and without technology <ul style="list-style-type: none"> · factoring · quadratic formula with real number solutions 	SE/TE: 576-579, 580-585, 586-588, 589-594, 597, 600, 606, 609-611, 617 TR: Mathematics Standardized Test Prep Workbook; Practice Workbook; Spanish Practice Workbook; Student Manipulatives Kit; Assessment Success Kit; Graphing Calculator Handbook; Calculator Based Laboratory™ (CBL) Activities; Prentice Hall Skills Intervention Kit; Transparencies: First Five Minutes, Student Edition Answers, Test-Taking Tips TECH: Resource Pro® CD-ROM with Planning Express®; Computer Item Generator CD-ROM; Secondary Math Lab Toolkit™; Student Tutorial CD-ROM; Web Extension: www.phschool.com; Wide World of Mathematics™ Videos; Algebra Instructional Videos: A Step by Step Guide to Key Concepts

Prentice Hall Algebra 1 © 2006, (Smith/Charles)

Correlated to:

Arkansas Mathematics Curriculum, Algebra 1, (Grades 9-12)

ARKANSAS MATHEMATICS CURRICULUM, ALGEBRA 1		PAGE(S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
NLF.4.AI.4	Recognize function families and their connections including vertical shift and reflection over the x-axis <ul style="list-style-type: none"> · quadratics · absolute value · exponential functions 	SE/TE: 546 (#35, 36), 556 (#33)
NLF.4.AI.5	Communicate real world problems graphically, algebraically, numerically and verbally	SE/TE: 38-39, 44-45, 46, 87, 98-99, 109, 117, 122-123, 157, 159, 163, 164, 194-195, 253-255, 274, 296, 337, 344-346, 379, 385, 394, 475-476, 507-508, 570, 584, 606, 607-608 TR: Mathematics Standardized Test Prep Workbook; Practice Workbook; Spanish Practice Workbook; Student Manipulatives Kit; Assessment Success Kit; Graphing Calculator Handbook; Calculator Based Laboratory™ (CBL) Activities; Prentice Hall Skills Intervention Kit; Transparencies: First Five Minutes, Student Edition Answers, Test-Taking Tips TECH: Resource Pro® CD-ROM with Planning Express®; Computer Item Generator CD-ROM; Secondary Math Lab Toolkit™; Student Tutorial CD-ROM; Web Extension: www.phschool.com; Wide World of Mathematics™ Videos; Algebra Instructional Videos: A Step by Step Guide to Key Concepts
Data Interpretation and Probability		
Content Standard 5 Students will compare various methods of reporting data to make inferences or predictions.		
DIP.5.AI.1	Construct and use scatter plots and line of best fit to make inferences in real life situations	SE/TE: 333-337, 349, 438, 665-668 TR: Mathematics Standardized Test Prep Workbook; Practice Workbook; Spanish Practice Workbook; Student Manipulatives Kit; Assessment Success Kit; Graphing Calculator Handbook; Calculator Based Laboratory™ (CBL) Activities; Prentice Hall Skills Intervention Kit; Transparencies: First Five Minutes, Student Edition Answers, Test-Taking Tips TECH: Resource Pro® CD-ROM with Planning Express®; Computer Item Generator CD-ROM; Secondary Math Lab Toolkit™; Student Tutorial CD-ROM; Web Extension: www.phschool.com; Wide World of Mathematics™ Videos; Algebra Instructional Videos: A Step by Step Guide to Key Concepts

Prentice Hall Algebra 1 © 2006, (Smith/Charles)

Correlated to:

Arkansas Mathematics Curriculum, Algebra 1, (Grades 9-12)

ARKANSAS MATHEMATICS CURRICULUM, ALGEBRA 1		PAGE(S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
DIP.5.AI.2	Use simple matrices in addition, subtraction, and scalar multiplication	TECH: www.phschool.com for instructional support, including practice and applications
DIP.5.AI.3	Construct simple matrices for real life situations	TECH: www.phschool.com for instructional support, including practice and applications
DIP.5.AI.4	Determine the effects of changes in the data set on the measures of central tendency	SE/TE: 663
DIP.5.AI.5	Use two or more box-and-whisker plots to compare data sets	TECH: www.phschool.com for instructional support, including practice and applications
DIP.5.AI.6	Construct and interpret a cumulative frequency histogram in real life situations	SE/TE: 660
DIP.5.AI.7	Recognize linear functions and non-linear functions by using a table or a graph	SE/TE: 542-545 TR: Mathematics Standardized Test Prep Workbook; Practice Workbook; Spanish Practice Workbook; Student Manipulatives Kit; Assessment Success Kit; Graphing Calculator Handbook; Calculator Based Laboratory™ (CBL) Activities; Prentice Hall Skills Intervention Kit; Transparencies: First Five Minutes, Student Edition Answers, Test-Taking Tips TECH: Resource Pro® CD-ROM with Planning Express®; Computer Item Generator CD-ROM; Secondary Math Lab Toolkit™; Student Tutorial CD-ROM; Web Extension: www.phschool.com; Wide World of Mathematics™ Videos; Algebra Instructional Videos: A Step by Step Guide to Key Concepts
DIP.5.AI.8	Compute simple probability with and without replacement	SE/TE: 640-643 TR: Mathematics Standardized Test Prep Workbook; Practice Workbook; Spanish Practice Workbook; Student Manipulatives Kit; Assessment Success Kit; Graphing Calculator Handbook; Calculator Based Laboratory™ (CBL) Activities; Prentice Hall Skills Intervention Kit; Transparencies: First Five Minutes, Student Edition Answers, Test-Taking Tips TECH: Resource Pro® CD-ROM with Planning Express®; Computer Item Generator CD-ROM; Secondary Math Lab Toolkit™;

Prentice Hall Algebra 1 © 2006, (Smith/Charles)

Correlated to:

Arkansas Mathematics Curriculum, Algebra 1, (Grades 9-12)

ARKANSAS MATHEMATICS CURRICULUM, ALGEBRA 1		PAGE(S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
DIP.5.AI.8	(Continued) Compute simple probability with and without replacement	(Continued) TECH: Student Tutorial CD-ROM; Web Extension: www.phschool.com; Wide World of Mathematics™ Videos; Algebra Instructional Videos: A Step by Step Guide to Key Concepts
DIP.5.AI.9	Recognize patterns using explicitly defined and recursively defined linear functions	SE/TE: 309-312, 313-317, 318-322, 323-327, 338-341
DIP.5.AI.10	Communicate real world problems graphically, algebraically, numerically and verbally	SE/TE: 38-39, 44-45, 46, 87, 98-99, 109, 117, 122-123, 157, 159, 163, 164, 194-195, 253-255, 274, 296, 337, 344-346, 379, 385, 394, 475-476, 507-508, 570, 584, 606, 607-608 TR: Mathematics Standardized Test Prep Workbook; Practice Workbook; Spanish Practice Workbook; Student Manipulatives Kit; Assessment Success Kit; Graphing Calculator Handbook; Calculator Based Laboratory™ (CBL) Activities; Prentice Hall Skills Intervention Kit; Transparencies: First Five Minutes, Student Edition Answers, Test-Taking Tips TECH: Resource Pro® CD-ROM with Planning Express®; Computer Item Generator CD-ROM; Secondary Math Lab Toolkit™; Student Tutorial CD-ROM; Web Extension: www.phschool.com; Wide World of Mathematics™ Videos; Algebra Instructional Videos: A Step by Step Guide to Key Concepts

<http://arkedu.state.ar.us/curriculum/benchmarks.html#Math>

41