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2009 Algebra I Standards of Learning		
STANI	DARD	Correlation: Must address both the standards and the curriculum framework. Use page number and SE for Student Edition or CT for Core Technology. (Identify no more than 8 correlations.)
A.1	The student will represent verbal quantitative situations algebraically and evaluate these expressions for given replacement values of the variables.	pp.44–48 SE, pp. 61, 63, 66, 67, 73, 75 SE. Math Applications pp. 61-77 SE

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2009 Algebra I Standards of Learning		
STANDARD		Correlation: Must address both the standards and the curriculum framework. Use page number and SE for Student Edition or CT for Core Technology. (Identify no more than 8 correlations.)
A.2 The stu includi	ident will perform operations on polynomials,	
a) app ope	olying the laws of exponents to perform erations on expressions;	pp.571–576 SE
b) add pol	ling, subtracting, multiplying, and dividing ynomials; and	pp.560–565 SE, pp.566–570 SE, and pp.577–583 SE
c) fact bin Gra fact	toring completely first- and second-degree omials and trinomials in one or two variables. aphing calculators will be used as a tool for toring and for confirming algebraic factorizations.	pp.584–590 SE, pp.591–596 SE, pp.597–601 SE, and pp.602–603 SE

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2009 Algebra I Standards of Learning		
STANI	DARD	Correlation: Must address both the standards and the curriculum framework. Use page number and SE for Student Edition or CT for Core Technology. (Identify no more than 8 correlations.)
A.3	The student will express the square roots and cube roots of whole numbers and the square root of a monomial algebraic expression in simplest radical form.	pp.733–737 SE, Activity 2 pp. 123-124 SE, pp. 769, 770, 776, 777 SE

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	2009 Algebra I Standards of Learning		
STANI	DARD	Correlation: Must address both the standards and the curriculum framework. Use page number and SE for Student Edition or CT for Core Technology. (Identify no more than 8 correlations.)	
A.4	The student will solve multistep linear and quadratic equations in two variables, including		
	a) solving literal equations (formulas) for a given variable;	pp.157–159 SE, 164–165 SE, selected problems from pp. 181–191 SE	
	b) justifying steps used in simplifying expressions and solving equations, using field properties and axioms of equality that are valid for the set of real numbers and its subsets;	pp.140–147 SE, pp.154–160 SE, pp.161–166 SE, and pp. 167–171 SE	
	Graphing calculators will be used both as a primary tool in solving problems and to verify algebraic solutions.		

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STANDARD	Correlation: Must address both the standards and the curriculum framework. Use page number and SE for Student Edition or CT for Core Technology. (Identify no more than 8 correlations.)
c) solving quadratic equations algebraically and graphically;	pp.622–627 SE, pp.634–638 SE, pp.639–645 SE, pp.646–649 SE, and pp.650–657 SE
<ul> <li>d) solving multistep linear equations algebraically and graphically;</li> </ul>	pp.161–166 SE, pp.167–171 SE, pp. 214-219 SE, pp. 225-226 SE, pp. 244-246 SE, pp. 253-255 SE
e) solving systems of two linear equations in two variables algebraically and graphically; and	pp.446–450 SE, pp.451–456 SE, pp.457–462 SE, pp.463–468 SE, and pp.469–474 SE
<ul> <li>f) solving real-world problems involving equations and systems of equations.</li> </ul>	pp.140–147 SE, pp. 148-1534 SE, pp.154–160 SE, pp.161–166 SE, pp. 167–171 SE, pp.181–191 SE, pp.446–450 SE, pp.451–456 SE, pp.457–462 SE, pp.463–468 SE, and pp.469–474 SE and pp.480–489 SE
Graphing calculators will be used both as a primary tool in solving problems and to verify algebraic solutions.	

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STANI	DARD	Correlation: Must address both the standards and the curriculum framework. Use page number and SE for Student Edition or CT for Core Technology. (Identify no more than 8 correlations.)	
A.5	The student will solve multistep linear inequalities in two variables, including		
	a) solving multistep linear inequalities algebraically and graphically;	pp.501–505 SE, pp.506–511 SE, pp.512–518 SE, pp.519–522 SE, and pp.523–530 SE	
	b) justifying steps used in solving inequalities, using axioms of inequality and properties of order that are valid for the set of real numbers and its subsets;	pp.501–505 SE, pp.506–511 SE and pp.512–518 SE	
	c) solving real-world problems involving inequalities; and	pp.501–505 SE, pp.506–511 SE, pp.512–518 SE, pp.519–522 SE, pp.523–530 SE, and pp.544–553 SE	

2009 Algebra I Standards of Learning	
STANDARD	Correlation: Must address both the standards and the curriculum framework. Use page number and SE for Student Edition or CT for Core Technology. (Identify no more than 8 correlations.)
d) solving systems of inequalities.	pp.531–535 SE

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	2009 Algebra I Standards of Learning	
STAND	ARD	Correlation: Must address both the standards and the curriculum framework. Use page number and SE for Student Edition or CT for Core Technology. (Identify no more than 8 correlations.)
A.6	The student will graph linear equations and linear inequalities in two variables, including	
	a) determining the slope of a line when given an equation of the line, the graph of the line, or two points on the line. Slope will be described as rate of change and will be positive, negative, zero, or undefined; and	pp.207–213 SE and pp.214–222 SE
	b) writing the equation of a line when given the graph of the line, two points on the line, or the slope and a point on the line.	pp. 223–229 SE

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STANE	DARD	Correlation: Must address both the standards and the curriculum framework. Use page number and SE for Student Edition or CT for Core Technology. (Identify no more than 8 correlations.)
A.7	The student will investigate and analyze function (linear and quadratic) families and their characteristics both algebraically and graphically, including	
	a) determining whether a relation is a function;	pp.272–278 SE
	b) domain and range;	pp.272–278 SE and pp.622–627 SE
	c) zeros of a function;	pp.230–237 SE, pp.628–633 SE, and pp.646–649 SE

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STANDARD	Correlation: Must address both the standards and the curriculum framework. Use page number and SE for Student Edition or CT for Core Technology. (Identify no more than 8 correlations.)
d) <i>x</i> - and <i>y</i> -intercepts;	pp.214–222 SE, pp.230–237 SE, and pp.244–248 SE
e) finding the values of a function for elements in its domain; and	pp.279–282 SE
<ul> <li>f) making connections between and among multiple representations of functions including concrete, verbal, numeric, graphic, and algebraic.</li> </ul>	pp.288–295 SE, p. 705 SE, Activity 1 & 2 pp. 312-314 SE, Math Applications pp. 313-314 SE

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STANDARD		Correlation: Must address both the standards and the curriculum framework. Use page number, and SE for Student Edition or CT for Core Technology. (Identify no more than 8 correlations.)
A.8 The student, given a will analyze a relation inverse variation exi- algebraically and gra- algebraically.	situation in a real-world context, on to determine whether a direct or sts, and represent a direct variation aphically and an inverse variation	pp.283–287 SE, p. 315 SE, p. 320 SE, p. 322 SE, and p. 324 SE. Activity 2 pp. 313-314 SE

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STANDARD		Correlation: Must address both the standards and the curriculum framework. Use page number and SE for Student Edition or CT for Core Technology. (Identify no more than 8 correlations.)		
A.9	The student, given a set of data, will interpret variation in real-world contexts and calculate and interpret mean absolute deviation, standard deviation, and z-scores.	Standard Deviation: pp.421–426 SE, and p. 432 Mean absolute deviation and z-scores not covered		

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STANDARD		Correlation: Must address both the standards and the curriculum framework. Use page number and SE for Student Edition or CT for Core Technology. (Identify no more than 8 correlations.)		
A.10	The student will compare and contrast multiple univariate data sets, using box-and-whisker plots.	pp.416–420 SE		

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STANDARD		Correlation: Must address both the standards and the curriculum framework. Use page number and SE for Student Edition or CT for Core Technology. (Identify no more than 8 correlations.)		
A.11	The student will collect and analyze data, determine the equation of the curve of best fit in order to make predictions, and solve real-world problems, using mathematical models. Mathematical models will include linear and quadratic functions.	pp.404–411 SE and pp. 432–433. Activity 1, pp. 658-659 SE. Activity 3, pp. 660-662 SE		