

Publisher: Kinetic Books®  
 Program Title: *Algebra I*  
 Components:  
 Grade Level(s): middle and high school

**OREGON STANDARDS MAP**  
**(Algebra I)**

Standard No.	Standard Language	Publisher Citations	
	<b>ALGEBRA I</b>	<b>Primary Citations</b>	<b>Supporting Citations</b>
MA.08.A R.01	Represent, analyze and determine rules for finding patterns relating to linear functions, nonlinear functions and arithmetic sequences with tables, graphs, and symbolic rules.	1.17 to 1.18 6.04 6.07 to 6.09	1.21 to 1.22 6.33
MA.08.A R.02	Identify functions as linear or nonlinear from tables, graphs, or equations and contrast their properties.	5.15 to 5.16 5.20 6.12 6.15 to 6.18 13.01 13.46	5.30 5.41 5.51 5.65 6.33 13.63
MA.08.A R.03	Interpret the meaning of the rate of change and y-intercept of a linear relationship in a problem setting.	5.35 to 5.36 5.50 to 5.56	5.39 to 5.40 5.57 5.65
MA.CM. AR.01	Represent and generalize sequences resulting from linear, quadratic, and exponential relationships using recursive or explicit formulas tables of values and graphs.	1.02 3.52 5.13 to 5.20 6.04 6.07 to 6.09 13.46 to 13.47	3.61 5.21 to 5.22 5.65 6.13 to 6.14 6.33 13.63
MA.CM. AR.02	Produce a valid conjecture using inductive reasoning by generalizing	1.17 to 1.18 2.52	

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	from a pattern of observations.		
MA.CM.AR.03	Evaluate and make a table for two-variable formulas and match a graph or table of values to its formula.	1.30 to 1.35 3.56 to 3.57	1.36 to 1.39 3.58 to 3.59 3.61
MA.CM.AR.04	Identify independent and dependent variables and determine the domain and range of a function in a problem situation.	6.01 6.06 6.10	6.33
MA.08.A R.04	Represent and solve equations of the form $ax+b=c$ or $k(ax+ b) = c$ .	3.13 to 3.18 3.30 to 3.32 3.34 to 3.38 3.41 to 3.48 3.51 to 3.54	3.19 to 3.20 3.39 to 3.40 3.49 to 3.50 3.55 3.61
MA.08.A R.05	Approximate solutions of systems of linear equations from a graph.	7.05 to 7.07 7.10	7.08 to 7.09 7.47
MA.08.A R.06	Recognize and generate equivalent symbolic forms for algebraic expressions with an emphasis on linear relationships.	1.07 to 1.08	1.10 to 1.11
MA.08.A R.07	Evaluate algebraic expressions and formulas, including expressions involving exponents and parentheses, by substituting rational numbers.	1.02 to 1.06 1.12 to 1.14 1.18	1.07 to 1.08 1.10 to 1.11 1.15 to 1.16 1.20 to 1.22 1.39
MA.08.A R.08	Translate between and interpret linear relationships represented by words, symbols, tables, and graphs.	5.13 5.16 to 5.17 5.50 to 5.51 6.04 6.08 6.15 to 6.16	5.21 to 5.22 5.65 6.33

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MA.08.A R.09	Determine the slope and x- and y-intercepts given the graph of a linear equation.	5.23 to 5.24 5.27 to 5.29 5.31	5.25 to 5.26 5.39 to 5.40 5.65
MA.08.A R.10	Graph a linear equation given the slope and an initial value (y-intercept).	5.30 5.35	5.33 5.36 5.39 to 5.40 5.65
MA.08.A R.11	Recognize and graph the solutions of linear inequalities on a number line.	8.01 to 8.04	8.05 to 8.12 8.40
MA.08.A R.12	Graph simple quadratic equations ( $y=kx^2$ or $y=kx^2+b$ ) by generating a table of values for a given equation.	13.47	13.46 13.53 to 13.54 13.63
MA.08.A R.13	Identify and describe the effects of changing the slope or y-intercept on the graph of a linear relationship of the form $y=kx$ or $y=kx+b$ .	5.27 to 5.30 5.50 5.52	5.51 5.65
MA.CM. AR.05	Algebraically represent situations and solve problems involving quadratic and exponential equations, including exponential growth and decay.	13.08 to 13.10 13.16 13.18 13.28 to 13.29 13.34 to 13.36	13.11 to 13.12 13.19 to 13.20 13.37 to 13.38 13.63
MA.CM. AR.06	Use graphs to solve non-linear equations, including quadratics.	13.48 to 13.50	13.51 13.53 to 13.54 13.63
MA.CM. AR.07	Represent and solve system of linear equations with two variables using simultaneous equations and by	7.01 to 7.02 7.05 to 7.06 7.10 to 7.18	7.03 to 7.04 7.07 to 7.09 7.19 to 7.21 7.47

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	graphing.		
MA.CM.AR.08	Recognize and generate equivalent forms for algebraic expressions, including combining like terms and expanding binomials.	1.07 to 1.08 3.13 to 3.14	1.10 to 1.11
MA.CM.AR.09	Evaluate algebraic expressions and formulas by substituting real numbers.	1.02 to 1.03 1.06 1.12 to 1.14 1.18 1.31 to 1.35	1.10 to 1.11 1.21 to 1.22 1.36 to 1.39
MA.CM.AR.10	Translate between and interpret quadratic and exponential relationships represented by words, symbols, tables, and graphs.	13.46 to 13.48	13.63
MA.CM.AR.11	Determine and interpret maxima or minima and zeros of quadratic functions, and linear functions where $y = \text{constant}$ .	5.31 13.46 to 13.50	13.51 to 13.54 13.63
MA.CM.AR.12	Graph linear inequalities in two variables.	8.28	8.27 8.40
MA.CM.AR.13	Graph quadratic and exponential equations.	13.46 to 13.50	13.51 to 13.54 13.63
MA.CM.AR.14	Analyze how changing a parameter (i.e., $k$ , $b$ ) in a quadratic or exponential function of the form $y=kx+b$ , $y=kx^2+b$ , or $y=k(x+b)^2$ affects its graph.	13.47	13.63
MA.08.AR.14	Model situations, make predictions and inferences, and solve problems using linear equations and	3.0 to 3.09 3.13 to 3.16 3.21 to 3.22	3.10 to 3.12 3.17 to 3.20 3.23 to 3.25

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	inequalities.	3.30 to 3.32 3.34 to 3.38 3.41 3.45 to 3.47 3.51 to 3.54 8.0 to 8.10	3.33 3.39 to 3.40 3.42 to 3.44 3.48 to 3.50 3.55 3.61 8.11 to 8.12 8.40
MA.08.A R.15	Recognize and represent direct variation using tables, graphs, and equations.	6.15 to 6.16	6.20 to 6.21 6.33
MA.08.A R.16	Determine when data represented in a table or graph represents a linear or nonlinear relationship.	5.13 to 5.17 5.20 5.41 5.50 to 5.52 5.55 to 5.56 6.11 to 6.12 6.15 6.18 13.46 to 13.47	5.53 to 5.54 5.57 5.65 6.13 to 6.14 6.20 to 6.21 6.33 13.48 to 13.54 13.63
MA.CM. AR.15	Model situations, make predictions and inferences, and solve problems using linear, quadratic, and exponential functions.	3.0 to 3.09 3.13 to 3.16 3.21 to 3.22 3.30 to 3.32 3.34 to 3.38 3.41 3.45 to 3.47 3.51 to 3.54 5.08 to 5.10 5.13 to 5.17 5.20 13.03 to 13.10 13.13 to 13.18 13.21 to 13.24 13.27 to 13.36	3.10 to 3.12 3.17 to 3.20 3.23 to 3.25 3.33 3.39 to 3.40 3.42 to 3.44 3.48 to 3.50 3.55 3.61 5.11 to 5.12 5.21 to 5.22 5.65 13.0 to 13.02 13.11 to 13.12 13.19 to 13.20

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		13.45 to 13.50	13.25 to 13.26 13.37 to 13.38 13.51 to 13.54 13.63
MA.CM. AR.16	Determine when data represented in a table or graph represents a linear, quadratic, or exponential relationship.	5.13 to 5.17 5.20 5.41 5.50 to 5.52 5.55 to 5.56 6.07 to 6.09 6.11 to 6.12 6.15 6.18 13.46 to 13.47	5.53 to 5.54 5.57 5.65 6.13 to 6.14 6.20 to 6.21 6.33 13.48 to 13.54 13.63
MA.08.A R.17	Understand that the rate of change in a linear function is constant and is equal to the slope of its graphed line.	5.23 to 5.24 5.27 to 5.28 5.36 5.50 to 5.56	5.25 to 5.26 5.39 to 5.40 5.57 5.65
MA.08.A R.18	Determine the slope of a line given two points on the line.	5.23 to 5.24 5.27 to 5.28 5.34 5.50 to 5.51 5.55	5.25 to 5.26 5.39 to 5.40 5.65
MA.08.A R.19	Analyze the nature of change in quantities in linear relationships represented by graphs, tables, or formulas.	5.50 to 5.51 5.55 to 5.56 6.04 6.07 to 6.08 6.15	5.57 5.65 6.13 to 6.14 6.20 to 6.21 6.33
MA.CM. AR.17	Approximate and interpret rates of change in graphical and numeric data.	5.50 to 5.56	5.57 5.65
MA.CM.	Analyze the nature of change of each	5.20 6.09	6.20 to 6.21 6.33

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AR.18	variable in a non-linear relationship as suggested by a table of values, a graph or a formula.	6.17 to 6.18 13.0 to 13.01 13.46 to 13.47	13.63