

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

PENNSYLVANIA STANDARDS MAP
(Algebra I)

Standard No.	Standard Language	Publisher Citations	
	ALGEBRA I	Primary Citations	Supporting Citations
2.8.8.A	Apply simple algebraic patterns to basic number theory and to spatial relations.	1.17 to 1.18 2.45 9.01	
2.8.8.B	Discover, describe and generalize patterns, including linear, exponential and simple quadratic relationships.	1.17 to 1.18 6.04 6.07 to 6.09	1.21 to 1.22 6.33
2.8.8.C	Create and interpret expressions, equations or inequalities that model problem situations.	1.14 3.34 to 3.35 3.41 3.45 to 3.47 3.51 to 3.54 8.09 to 8.10 11.43 to 11.47 12.50 to 12.51 13.07 to 13.10 13.16 13.18 13.28 to 13.29 13.34 to 13.35	3.49 to 3.50 3.55 3.61 8.11 to 8.12 8.40 11.49 to 11.51 12.52 to 12.53 12.69 13.11 to 13.12 13.19 to 13.20 13.37 to 13.38 13.63
2.8.8.D	Use concrete objects to model algebraic concepts.	2.45 10.22 10.25	
2.8.8.E	Select and use a strategy to solve an equation or inequality, explain the	3.13 to 3.16 3.21 to 3.22	3.17 to 3.20 3.23 to 3.25 3.33

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	solution and check the solution for accuracy.	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	3.39 to 3.40 3.42 to 3.44 3.48 to 3.50 3.55 3.61 8.11 to 8.12 8.40
2.8.8.F	Solve and graph equations and inequalities using scientific and graphing calculators and computer spreadsheets.	3.21 to 3.22 5.16 5.18 5.30 5.41 6.08 8.02 to 8.04 8.06 13.49	5.13
2.8.8.G	Represent relationships with tables or graphs in the coordinate plane and verbal or symbolic rules.	6.02 6.06	6.13 to 6.14 6.33
2.8.8.H	Graph a linear function from a rule or table.	6.08 6.15 to 6.16	6.20 to 6.21 6.33
2.8.8.I	Generate a table or graph from a function and use graphing calculators and computer spreadsheets to graph and analyze functions.	6.04 6.08 to 6.09 6.15	6.13 to 6.14 6.33
2.8.8.J	Show that an equality relationship between two quantities remains the same as long as the same change is made to both quantities; explain how a change in one quantity determines another quantity in a functional relationship.	3.02 to 3.03 3.05 to 3.07 6.04 6.06 6.08	6.33

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