

Prioritized Scope and Sequence

The template below is designed to reflect the most common sequence of topics found in most algebra I curriculums and textbooks. Each school environment is different and collaborative teams of teachers are encouraged to add their own list of resources used to teach the lesson; therefore, **the last two columns have been left blank**. Teacher teams should then reflect on how these lessons might be improved or enhanced. One session indicates a 45 minute class period. Schools will need to adapt these sessions to accommodate their individual class schedules. Teachers should then fill in the actual amount of time it takes to teach each lesson in the column below.

The lessons are coded by module number and lesson number. For example, M1 -1 means Module 1 – Lesson 1.

Lesson	Topic	Standard (s)	Sessions (estimated)	Sessions (Actual)	Resources/Textbook Alignment
M1 - 1	Writing & evaluating algebra expressions	EA-2.6	3		
M1 - 2	The Real number line & operations with integers	EA-2.1	3		
M1 - 3	Combining like terms	EA-2.7	3		Switched order of previous 3 & 4
M1 - 4	Real number properties	EA-2.5	3		
M1 - 5	Distributive Property	EA-2.5 EA-2.7	3		Scope & Sequence was changed to reflect moving Lesson 2 M8 to Lesson 5 M1
M1 - 6	Operations with matrices	EA-2.9 EA-2.10	4		Added 2.10 (previously missing from curriculum)
M2 - 1	Solving linear equations	EA-4.7	6		
M2 - 2	Solving literal equations	EA-3.7	4		
M2 - 3	Applying proportional reasoning to solve problems	EA-3.8	3		
M2 - 4	Direct & inverse variation	EA-3.6	3		
M3 - 1	Graphing using a table of values	EA-5.1	4		
M3 - 2	Representing linear equations in various forms	EA-4.6	4		
M3 - 3	Determining slope using multiple representations	EA-5.6	3		
M3 - 4	Understanding slope as a rate of change	EA-5.7	4		

Lesson	Topic	Standard (s)	Estimated sessions	Actual Sessions	Resources/Textbook Alignment
M3 - 5	Graphing linear equations Using slope and y-intercept	EA - 5.3 EA - 5.1	3		
M3 - 6	Examining the effect of changes on m and b on the graph of a linear function	EA - 5.2	5		
M3 - 7	Graphing linear equations given a slope and a point	EA - 5.4	3		
M3 - 8	Using x- and y-intercept to graph a line	EA - 5.5 EA - 5.1	4		
M4 - 1	Classifying a relation as function or not a function	EA - 3.1	2		
M4 - 2	Writing equations using function notation	EA - 3.2	2		
M4 - 3	Evaluating a function for a given value	EA - 3.3	2		
M4 - 4	Analyze a graph and determine the domain and range	EA - 3.4	2		
M4 - 5	Graphing the parent functions	EA - 3.5	2		
M5 - 1	Writing a linear equation given a slope and y-intercept	EA - 4.1	3		
M5 - 2	Writing a linear equation given a slope and a point	EA - 4.2	4		
M5 - 3	Writing a linear equation given two points	EA - 4.3	4		
M5 - 4	Analyzing scatter plots to make predictions	EA - 4.5	3		
M5 - 5	Writing the equation of a trend line	EA - 4.4	3		
M5 - 6	Write a linear equation given a problem situation	EA - 5.9	4		
M5 - 7	Determine domain and range of linear functions	EA - 5.10	3		
M6 - 1	Writing linear inequalities in problem situations	EA - 5.12	4		
M6 - 2	Solving and graphing solutions to linear inequalities	EA - 4.8	4		

M7 - 1	Writing systems of linear equations	EA - 5.11	4		
Lesson	Topic	Standard (s)	Estimated sessions	Actual Sessions	Resources/Textbook Alignment
M7 - 2	Solving linear systems graphically	EA - 4.9	5		
M7 - 3	Solving systems of linear equations algebraically	EA - 4.10	5		
M7 - 4	Determining whether lines are parallel, perpendicular, or neither	EA - 5.8	5		
M8 - 1	Law of exponents	EA - 2.2 EA - 2.7	4		
M8 - 2	Scientific Notation	EA - 2.3	4		
M9 - 1	The Effects of "a" in $y = ax^2$	EA - 6.1	4		
M9 - 2	The Effects of "c" on $y = x^2 + c$	EA - 6.2	4		
M9 - 3	Determining a quadratic equation from the graph	EA - 6.3	4		
M9 - 4	Factoring methods	EA - 2.8	10		
M9 - 5	Solving quadratic equations by factoring	EA - 6.4	4		
M9 - 6	Estimating solutions to a quadratic from the graph	EA - 6.5	3		
M9 - 7	Finding domain of a quadratic function in problem situations	EA - 6.6	3		