

Elementary Algebra, Curriculum Map

CORD Algebra 1

Ch. 4		<u>Big Idea:</u> Graphs of Linear Equations		<u>Enduring Understanding:</u> Graphs of equations help us understand, use, and solve equations.	<u>Enduring Question:</u> How can I find and show all the solutions to this equation?
Day	Title	Concept	DRSL (Understanding, Know, Do, Attitude)	Assessments/Learning Activities	Core
1	4.1-4.2	Coordinates and Graphs of Lines	<ul style="list-style-type: none"> ▪ Students will be able to identify points in a coordinate plane. ▪ Students will collect data from a linear situation and plot this data in a coordinate plane. ▪ Students will be able to plot points and draw lines in a coordinate plane 	<ul style="list-style-type: none"> ▪ LA: p. 216: 1-25 all ▪ Lab, Weight and Volume of Water ▪ AP: p. 265: 1-3 	
3	4.3	Slope of a Line	<ul style="list-style-type: none"> ▪ Students will be able to find the slope of a line from its graph and from two points on the line. ▪ Students will understand that slope of a line is a rate of change. 	<ul style="list-style-type: none"> ▪ LA: p. 223: 2, 4, 6-27 all, 35-37 ▪ AP: p. 269: 34-36 	
4	4.4	Graphing Linear Equations	<ul style="list-style-type: none"> ▪ Students will be able to graph a line given its slope and y-intercept. ▪ Students will be able to represent lines using the slope intercept and standard form for the equation of a line. 	<ul style="list-style-type: none"> ▪ LA: p. 231: 6-18 evens, 23-28 all, 32-34 all, 40 ▪ AP: p. 271: 43-45 	
5	4.5	Writing Linear Equations	<ul style="list-style-type: none"> ▪ Students will be able to write linear equations given a slope and y-intercept, a slope and a point, or a graph. ▪ Students will understand that real situations can be modeled using linear equations. 	<ul style="list-style-type: none"> ▪ LA: p. 238: 5-20 all, 27-29 all ▪ AP: p. 271: 46 	
6	4.6	Linear Functions	<ul style="list-style-type: none"> ▪ Students will be able to find the intercepts of linear functions ▪ Students will be able to write equations of lines given two points. ▪ Students will understand that real situations can be modeled using linear equations. 	<ul style="list-style-type: none"> ▪ LA: p. 246: 6-12 evens, 14-17 all, 18-25 all Lab, Cricket Chirps 	
7	4.7	Parallel and Perpendicular Lines	<ul style="list-style-type: none"> ▪ Students will determine if two lines are parallel or perpendicular 	<ul style="list-style-type: none"> ▪ LA: p. 253: 2-26 evens, 34-39 all 	

			<ul style="list-style-type: none"> ▪ Students will understand that parallel lines have the same slope. ▪ Students will be able to write an equation of a line through a point and parallel or perpendicular to another line. 		
8	4.8	Transformations to Linear Graphs	<ul style="list-style-type: none"> ▪ Students will understand the effects of in a graph when changing the slope and y-intercept. 	<ul style="list-style-type: none"> ▪ AP: p. 266: 9-12 ▪ LA: p. 255, Activities 1, 2, 3 ▪ AP: p. 270: 27-40 	
9	Review			<ul style="list-style-type: none"> ▪ LA: Chapter 4 Assessment, p. 276: 1-26 all 	
10	Test				