

Algebra 1, Learning Log

Name: _____

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	Learning Targets (What should I know, be able to do, what attitude should I have?)	How am I doing? A= I knew how and got it right B= I knew how, but small error C= I had no idea/guessed right D= I had no idea/guessed wrong	Assessments/Learning Activities
1	4.1	Coordinates and Graphs of Lines	a. I can identify points in a coordinate plane. b. I can collect data from a linear situation and plot this data in a coordinate plane. c. I can plot points and draw lines in a coordinate plane d. I can calculate the midpoint between two points.		Lab, Snake Skins 4.1, p. 204: 6-12, 15, 17, 18 3.6, p. 175: 3, 8, 14, 16-19 3.5, p. 170: 19, 20, 24 3.4, p. 166: 29, 30, 31 (part a only)
2	4.2	Slope of a Line	a. I can find the slope of a line from its graph and from two points on the line. b. I understand that slope of a line is a rate of change.		4.2, p. 212: 2, 3, 6-10, 14, 16 (parts a-f), 18, 20, 21 4.1, p. 204: 13, 14, 16, 19, 26-30 3.6, p. 175: 9, 20 p. 256: 1
Quiz 4.1-4.2		Score: ____ Poss. ____	What do I need help with?		
3	4.3	Graphing Linear Equations	a. I can graph a line given its slope and y-intercept. b. I can represent lines using the slope intercept and standard form for the equation of a line.	▪	Lab, Activity 1, p. 215, Activity 2, p. 217 4.3, p. 220: 1, 2, 5-8, 12, 13, 14, 17, 18, 21, 22, 25-27, 31 4.2, p. 212: 4, 5, 11-13, 15, 16 (parts g-j) 4.1, p. 204: 13, 14, 16 3.6, p. 176: 23-25
4	4.4	Writing Linear Equations	a. I can write linear equations given a slope and y-intercept, a slope and a point, or a graph. b. I understand that real situations can be modeled using linear equations.		4.4, p. 227: 5-10, 13-17, 21-23 4.3, p. 220: 9-11, 16, 20, 24 4.2, p. 212: 12, 17, 19 4.1, p. 206: 20-24, 31, 32 p. 262: 14, 15
Quiz 4.3-4.4		Score: ____ Poss. ____	What do I need help with?		

5	4.5	Linear Functions	<ul style="list-style-type: none"> a. I can find the intercepts of linear functions. b. I can write equations of lines given two points. c. I understand that real situations can be modeled using linear equations. 		Lab, Cricket Chirps 4.5, p. 235: 1, 6-10, 14, 15, 18-21, 27 4.4, p. 227: 3, 4, 11, 12, 18, 19 4.3, p. 220: 23, 30, 33 4.2, p. 213: 26-29
6	4.6	Parallel and Perpendicular Lines	<ul style="list-style-type: none"> a. I can determine if two lines are parallel or perpendicular b. I understand that parallel lines have the same slope. c. I can write an equation of a line through a point and parallel or perpendicular to another line. 	a.	4.6, p. 242: 1, 2, 6-9, 12, 13, 18, 19, 24 4.5, p. 235: 3, 5, 11, 12, 17, 22, 23 4.4, p. 227: 20, 24, 26 4.3, p. 222: 34, 35 p. 260: 11
Quiz 4.5-4.6		Score: ____ Poss. ____	What do I need help with?		
7	4.7	Transformations to Linear Graphs	<ul style="list-style-type: none"> a. I understand the effects of in a graph when changing the slope and y-intercept. 	▪	Lab, Activities 1-3, p. 244 4.7, p. 247: 3-5, 8-11, 17 4.6, p. 242: 3, 10, 11, 12, 18 4.5, p. 235: 16, 24, 25 4.4, p. 229: 28, 29, 33-35 p. 261: 12
8	Review				p. 266: 1-13 p. 269: 1-3, 5, 6, 9
10	Test 4	Score: ____	What do I need help with?		