

Algebra 1, Learning Log

Name: _____

Ch. 5		<u>Big Idea:</u> Nonlinear Functions	<u>Enduring Understanding:</u> There are lots of situations that are nonlinear.	<u>Enduring Question:</u> What situations are linear/nonlinear, and how do I represent and work with these relationships?	
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	5.1	Relations and Functions	a. Students will understand what a relation in mathematics is. b. Students will be able to identify the domain and range of a relationship from a list of ordered pairs or graphs. c. Students will understand what a function is. d. Students will be able to write a function rule from a list of ordered pairs or graphs. e. Students will be able to use function notation.		5.1, p. 277: 5-7, 9, 11-13, 17, 20 4.7, p. 247: 12-15, 18, 25 4.6, p. 242: 13, 19, 26 4.5, p. 237: 36-38 p. 326: 21 (parts a & b only)
2	5.2	Evaluating Functions	a. Students will be able to evaluate functions. b. Students will be able to distinguish between linear and nonlinear relationships from graphs and function formulas.		Lab, Height and Wrist Relationship 5.2, p. 281: 4, 6-8 (parts a, b, c only), 9-11, 13, 14 5.1, p. 277: 4, 8, 10, 14, 15, 19 4.7, p. 247: 16, 26, 27 4.6, p. 243: 31, 32, 34, 35, 37
Quiz 5.1-5.2		Score: ____ Poss. ____	What do I need help with?		
3	5.3	Direct and Inverse Variation	a. Students will be able to set up equations to model direct and inverse variation. b. Students will be able to solve direct and inverse variation situations. c. Students will see there are lots of situations in our world which can be described with direct and inverse variation.		Lab, Marble Displacement 5.3, p. 287: 5-8, 11-12, 15-17 5.2, p. 281: 5, 6-7 (parts d, e, f only), 16 5.1, p. 277: 16, 18 20 4.7, p. 248: 19-21, 29

4	5.5	Functions Involving Square Roots	<ul style="list-style-type: none"> a. Students will understand what square roots are. b. Students will be able to approximate square roots without a calculator. c. Students will be able to solve equations using square roots. d. Students will use the Pythagorean Theorem to find missing sides of right triangles. 		<p>5.5, p. 301: 1, 2, 6-11, 14-17, 22-24, 28-30</p> <p>5.3, p. 287: 9, 10, 13, 18, 20</p> <p>5.2, p. 281: 12, 15</p> <p>5.1, p. 278: 23-28</p> <p>p. 316: 4</p>
Quiz 5.3-5.5		Score: ____ Poss. ____	What do I need help with?		
5	Review				<p>p. 328: 1-15</p> <p>p. 331: 2, 3, 6, 7, 8</p>
6	Test 5	Score: ____	What do I need help with?		