

Elementary Algebra, Curriculum Map

CORD Algebra 1

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	DRSL (Understanding, Know, Do, Attitude)	Assessments/Learning Activities	Core
1	5.1	Relations and Functions	<ul style="list-style-type: none"> ▪ Students will understand what a relation in mathematics is. ▪ Students will be able to identify the domain and range of a relationship from a list of ordered pairs or graphs. ▪ Students will understand what a function is. ▪ Students will be able to identify functions from a list of ordered pairs or graphs. ▪ Students will be able to use function notation. 	LA: p. 285: 5-10 all, 12-28 evens AP: p. 335: 69-71	
2	5.2	Evaluating Functions	<ul style="list-style-type: none"> ▪ Students will be able to evaluate functions. ▪ Students will be able to distinguish between linear and nonlinear relationships from graphs and function formulas. 	LA: p. 289:4-20 all, 24-31 all, 35 Lab, Height and Wrist Relationship	
3	5.3	Direct and Inverse Variation	<ul style="list-style-type: none"> ▪ Students will be able to set up equations to model direct and inverse variation. ▪ Students will be able to solve direct and inverse variation situations. ▪ Students will see there are lots of situations in our world which can be described with direct and inverse variation. 	LA: p294: 6-20, 21-27 Lab, Marble Displacement	
4	5.4	Graphs of Nonlinear Functions	<ul style="list-style-type: none"> ▪ Students will recognize absolute value and quadratic function graphs. ▪ Students will be able to describe vertical and horizontal transformations to absolute value and quadratic function's graphs. 	LA: p. 302: 2, 4, 6-13 all, 27-32 all AP: p. 331:46, 47	
5	5.5	Functions Involving Square Roots	<ul style="list-style-type: none"> ▪ Students will understand what square roots are. ▪ Students will be able to approximate square 	LA: p. 309: 6-42 evens	

			roots without a calculator.	AP: p. 324:12; p. 332: 52	
6	Review			LA: Chapter 5 Assessment, p. 338: 1-14 all, 17, 19-23 all	
7	Test				