

Mathematics and Economics Connections for Life: 9-12

Arkansas Math Framework Correlations

Algebra II

↓ frameworks/lessons →	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
RELATIONS AND FUNCTIONS															
Content Standard 1: Students will represent and analyze mathematical situations and properties using patterns, relations, functions and algebraic symbols.															
RF.1.AII.2 Evaluate, add, subtract, multiply, divide and compose functions and give appropriate domain and range restrictions											X				
RF.1.AII.4 Analyze and report, with and without appropriate technology, the effect of changing coefficients, exponents, and other parameters on functions and their graphs (linear, quadratic, and higher degree polynomial)								X	X						
RF.1.AII.6 Graph, with and without appropriate technology, functions defined as piece-wise and step													X		
LINEAR AND ABSOLUTE VALUE EQUATIONS AND INEQUALITIES															
Content Standard 2: Students will analyze and apply various methods to model, graph and solve linear and absolute value equations and inequalities.															
LEI.2.AII.2 Develop, write and graph, with and without appropriate technology, equations of lines in slope-intercept, pint-slope, and standard forms given <ul style="list-style-type: none"> • a point and the slope • two points • real world data 					X			X							

↓ frameworks/lessons →	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<p>QEF.3.AII.4 Develop and analyze, with and without appropriate technology, quadratic relations</p> <ul style="list-style-type: none"> graph a parabolic relationship when given its equation write an equation when given its roots (zeros or solutions) or graph determine the nature of the solutions graphically and by evaluating the discriminant determine the maximum or minimum values and the axis of symmetry both graphically and algebraically 							X								
POLYNOMIAL AND RATIONAL FUNCTIONS															
Content Standard 4: Students will use algebraic, graphical and numerical methods to analyze, compare, translate, and solve polynomial and rational equations.															
<p>PRF.4.AII.2 Develop and analyze, with and without appropriate technology, polynomial functions from their roots, graphs, or equations</p> <ul style="list-style-type: none"> write an equation when given its factors or roots (zeros or solutions) determine the x- and y- intercepts describe the end behaviors sketch the graph 								X	X	X					

