

	TOPICS	PRE-CLASS ASSIGNMENT TO BE COMPLETED BEFORE CLASS MEETING	SUGGESTED WORKBOOK ACTIVITIES/ASSESSMENTS
Aug 22 - 29	Review Fractions and Order of operations	Review the syllabus	Gateway practice problems
	Review Integer exponents	Complete Pre-Class Assignment 1; Integer exponents/Order of operation	Working with exponents, simplify integer exponents
	Review Polynomials: add/subtract/multiply	Complete Pre-Class Assignment part 1 and 2; Polynomial Operations	Operations with polynomial functions; select gateway practice problems add/subtract/multiply
	1.1 Introduction to functions	Pre-class assignment 1 section 1.1; Functions and models	Domain & range exploration or Domain worksheet; Understanding function notation
	Last Day to Add Wednesday August 28 at midnight		
	1.1 more on function representations	Pre-class assignment 2 section 1.1; Functions and models	Graph reading; Quiz 1
Sept 3 - 5	1.1 Graphs of functions	Pre-class assignment 3 section 1.1; Functions and models	Working with functions
	1.2 Graphs of functions	Complete Pre-Class Assignment section 1.2; Graphs of Functions	Distance Match (CBR's)
	1.3 Linear functions	Complete Pre-Class Assignment 1 part 1 and 2 section 1.3; Linear functions	Interpreting Slope and intercepts; Quiz 2
Sept 9 - 12	1.3 Profit/revenue/cost	Complete Pre-Class Assignment 2 section 1.3; Linear functions	Total Revenue, Cost and Profit activity.
	1.4 Equations of lines, approximate linear data and scatterplots	Complete Pre-Class Assignment 1 section 1.4; Equations of lines	Walking Student (CBR's),
	1.4 Equations of lines	Complete Pre-Class Assignment 2 section 1.4; Equations of lines	Linear modeling part I; Quiz 3
	Assign Linear project; Review		Have students find linear data (see grading rubric Unit Two guidelines)
Sept 16 - 19	Exam 1: Review / Chapter 1		
	2.1 Solving linear equations	Complete Pre-Class Assignment section 2.1; Solving linear equations	Function behavior- zeros; Linear Modeling
	2.1 Solving linear equations		Direct Variation, complete #85, 86,87,88 pg. 104 TEXTBOOK
	2.2 Linear models, first differences	Complete Pre-Class Assignment section 2.2; Linear models using real data	Is this set of data linear?; Quiz 4
Sept 23 - 26	2.2 Linear Modeling Real Data		Linear modeling part II; DUE DATE for linear project
	2.3 Solving linear systems	Complete Pre-Class Assignment section 2.3; Solving linear systems	Solving Linear systems
	2.3 Solving linear systems		Supply/Demand activity
	2.4 Solutions of linear inequalities	Complete Pre-Class Assignment section 2.4; Solving linear inequalities	Linear inequalities , Quiz 5

Sept 30 Oct 3	3.3 Piecewise functions	Complete Pre-Class Assignment 1 section 3.3; Piecewise functions	Piecewise functions defined (Activity 14)
	3.3 Piecewise functions,	Complete Pre-Class Assignment 2 section 3.3; Piecewise functions	Piecewise function application
	Review		
	Exam 2 chapter 2, 3.3		
Oct 7 - 9	3.4 Quadratic Models with Technology		Falling Object
	3.4 Quadratic Models	Complete Pre-Class Assignment 1 section 3.4; Quadratic models	Maximize Revenue
	3.1 Summarize features of quadratics	Complete Pre-Class Assignment section 3.1; Graphs of quadratic functions	Characteristics of Quadratics, Working with quadratic functions
	MIDTERM GRADES DUE Wednesday October 9 ; Fall Break Thursday October 10 Friday October 11		
Oct 14 - 17	Factoring Review	Complete Pre-Class Assignment 1: Factoring	Select problems: Factor completely; Kahn Academy challenge
	Simplify radical expressions	Complete Pre-Class Assignment: Radical expressions	Gateway practice set; Quiz 6
	Rational exponents defined	Complete Pre-Class Assignment: Rational exponents	Gateway practice set
	3.2 Solving quadratics using factoring techniques	Complete Pre-Class Assignment 1: section 3.2; Solving quadratics	Quadratic applications: factoring; Quadratic functions; Quiz 7
Oct 21 - 24	Review		Quadratics Lab
	Exam Unit Three: Review, chapter 3.1, 3.2, 3.4		
	4.1 Transformations	Complete Pre-Class Assignment 1: section 4.1; Transformations	Translations all; Transformation of functions; Select problems from Activity #30 and #49
	6.1 Characteristics higher order polynomials	Complete Pre-Class Assignment 1: section 6.1; Characteristics of higher order polynomials	Polynomial functions: End behavior
Oct 28 -31	6.1 Characteristics higher Order polynomials	Complete Pre-Class Assignment 2: section 6.1; Characteristics of higher order polynomials	Even and Odd multiplicity investigation; Quiz 8
	6.2 Modeling with higher order polynomials	Complete Pre-Class Assignment: section 6.2; Modeling with higher order polynomials	Characteristics of polynomial functions
	6.3 Solving polynomial equations by factoring	Complete Pre-Class Assignment: section 6.3; Solving polynomial equations by factoring	Understanding polynomial functions, Constructing polynomial functions
	LAST DAY TO WITHDRAW WEDNESDAY OCTOBER 30 @ MIDNIGHT		
	6.4 Solving higher order polynomials using division	Complete Pre-Class Assignment 1: section 6.4; Solving polynomial equations using division	Polynomial division: practice problems; Quiz 9
	6.4 Zeros of higher order polynomials	Complete Pre-Class Assignment 2: section 6.4; Solving polynomial equations using division	Finding real zeros pf polynomials; Polynomial function worksheet

Nov 4 - 7	4.4/6.6 solving quadratic and higher order inequalities	Complete Pre-Class Assignment 1 and 2: section 4.4/6.6; Solving higher order polynomial inequalities	Solving polynomial inequalities, Quiz 10
	Review		Modeling with higher order polynomials, ch6: final activity
	Exam 4; 4.1, ch6, 4.4		
Nov 12 - 14	4.2 Combining functions	Pre-Class Assignment section 4.2; Combining function	Applications of combining functions; Composition of functions part II
	4.3 Inverse functions	Pre-Class Assignment section 4.3; Inverse functions	Graphing inverse functions; Extra practice with inverses
	5.1 Exponential growth	Pre-Class Assignment 1 section 5.1; Exponential growth/decay	Graphing exponential functions using transformations; Quiz 11
Nov 18 - 21	5.1 Exponential functions, Growth factor, % change	Pre-Class Assignment 2 section 5.1; Exponential growth/decay	Exponential decay; Caffeine in your body or MM's
	5.4 Exponential models	Pre-Class Assignment section 5.4; Exponential models	The Genie's offer (growth); Quiz 12
	5.5 Financial models	Pre-Class Assignment section 5.5; Financial models	Practice with exponential growth and decay applications; (or Buying your dream car project)
	5.2 Introduction to logarithms	Pre-Class Assignment 1 section 5.2; Introduction to logarithms	Log "war" game (cards in storeroom); Exploring the log button
Nov 25 - 26	5.2 Properties of logs	Pre-Class Assignment 2 section 5.2; Properties of logarithms	Exponentials vs Logarithms; Finding inverse functions; Logs in Life introduction
	5.2 Properties of logs: Applications		Logs in Life; Quiz 13
	Thanksgiving Holiday		
Dec 2 - 5	5.3 Solving exponential and log equations	Pre-Class Assignment section 5.3; Solving exponential and log equations	More practice with logs; 3; Quiz 14
	Review		Practice problems
	Exam 5: 4.2, 4.3 Chapter 5		
	Review for final exam		
Dec 10	Comprehensive Final Exam Tuesday December 10 @ 3:15 – 5:30 location to be determined		