

January 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18 *Determine whether a function is a relation	19 M L King Day	20	21	22-Day 1 Home room reduced period by 30 minutes *Went over rules *Began talking about characteristics of Functions	23 *Identify if a relation is a function. *Evaluate a function for specific values using an equation and a graph	24
25-Week 1 *Determine domain and range of functions *Identify Parent Graphs	26 *Identifying intervals of increasing, decreasing and constant *Identify Domain and range from an equation and a graph *Interval and set notation	27 *Define Domain and range *Identify Domain and range from an equation and a graph *Interval and set notation	28 *Define Domain and range *Identify Domain and range from an equation and a graph *Interval and set notation	29 *Determine Parent Functions *Transform Graphs of Parent functions *Shifts and reflections *changes in graphs and coordinates	30 *Determine Parent Functions *Transform Graphs of Parent functions *Shifts, reflections and stretches/compression *changes in graphs and coordinates	31

February 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-Week 2 *Determine Parent Functions *Transform Graphs of Parent functions	2-Training *Sub Plans Domain and Transformations	3-Training *Sub Plans Domain and Transformations	4-Training *Sub Plans Domain and Transformations	5 *Determine Parent Functions *Transform Graphs of Parent functions	6 *Determine Parent Functions *Transform Graphs of Parent functions	7
8-Week 3 * Form Sum, difference, product, and quotient functions. * Identify their Domains	9 *Determine Parent Functions *Transform Graphs of Parent functions	10 *Took Quiz on Transformations	11 *Begin adding, subtracting, multiplying, and dividing functions	12 *Home room reduced period by 30 Minutes *Finished group activity with combinations and compositions *Began individual assignment on combinations	13 *Went over Combinations Homework. *Reviewed over Two Quiz questions from Tuesday	14 Valentine's Day
15-Week 4 *Form compositions of functions and identify their domains. *Determine if a function is even, odd, or neither *Inverse relations and functions	16 <u>Presidents' Day</u> *Review questions from transformations quiz *Identify Domain of a compositions *Determine if a function is even, odd, or neither	17 *Retake Quiz on transformations * Continue practice one combinations, compositions along with their domains. *Even, odd, neither * Define inverse relations	18 * Define inverse relations and functions * Find inverse relations from tables, graphs, and equations	19 *Sub Plans *Determine if an inverse relation is a function *Use graphing calculator to verify inverse functions and relations	20 <u>No School</u> required staff development	21
22-Week 5 *Inverse relations and functions *Introduce Polynomials	23 <u>Interim</u> *Review for Test on Parent functions, Combinations, Compositions, and Inverses	24-Training *Sub Plans *Extra Practice for review	25-Training *Sub Plans Test on unit 1	26 *Define and divide polynomials *Apply Remainder and factor theorems *Determine the maximum number of zeros	27 *recognize and describe graphs of various polynomials *Identify properties of general polynomial function *End Behavior	28

March 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Week 6 *Polynomial Functions *Rational Functions	2-Quiz *Quiz on Polynomials *Find all zeros of a polynomial	3 *Give complete factorization of a polynomial	4 *Identify Domain of a rational function *Find intercepts, asymptotes, and holes	5 *Review Polynomial and Rational Functions	6-Unit 2 Test *Test on Polynomial and Rational Functions	7
Week 7	9 *Solve Exponential Equations *Solve Logarithmic Equations	10 *Solve Exponential Equations *Solve Logarithmic Equations	11-Quiz Quiz-Solve Exponential Equations and Solve Logarithmic Equations *Application Problems	12 *Review Logarithmic and exponential problems	13-Unit 3 Test *Test on Exponentials and Logarithms	14
Week 8	16 *Define and use 6 trig functions in terms of a right triangle *Evaluate 6 trig functions using triangle and calculators	17 *Application Problems with right triangles *Introduce Unit Circle and reference angles *Covert radians and degrees and define radian	18-Quiz *Quiz-Solve right triangle and memorize unit circle *Define trig ratios in coordinate plane and in terms of unit circle	19 *Practice finding trig values *Develop basic Identities Quotient, Reciprocal, Pythagorean, Periodicity, Negative Angle	20 *Practice finding trig values *Develop basic Identities Quotient, Reciprocal, Pythagorean, Periodicity, Negative Angle	21
Week 9	23 *Review Unit 4	24-Unit 4 Test *Test on right triangle trig, ratios, and identities	25 *Graph Cosine and Sine using the unit Circle & amplitude and period *State the domain and range of each *Identify symmetry *Even/Odd	26 *Graph Secant and Cosecant functions using the unit circle & amplitude and period *State the domain and range *Identify symmetry *Even/Odd	27 Optional Workday	28
Week 10	30-Quiz *Quiz-graphing 4 basic trig functions *Graph Tangent and Cotangent functions *Identify domain and range	31 *State vertical and phase shift for all trig functions *Practice transformations *Application Problems				

April 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Week 10			1 *Use graph to determine if equations could be an identity *Review for test on graphing trig functions	2-Test Unit 5 *Test on graphing trig functions	3 Good Friday Optional Workday	4
5 <u>Easter Sunday</u> Spring Break	6 Spring Break	7 Spring Break	8 Spring Break	9 Spring Break	10 Spring Break	11 Spring Break
12-Week 11	13 *Solve a trig equation graphically *State the complete solution	14 *Define Domain and range of inverse trig functions *Use inverse trig notation	15 <u>Early Release RC</u> Quiz *Quiz-Solve trig equations graphically, inverse domain and range	16 *Solve trig equations algebraically *Work with a variety of methods to solve trig equations	17 *Review Unit 6 *Solve trig equations algebraically *Work with a variety of methods to solve trig equations	18
19-Week 12	20-Test Unit 6 *Solving trig equations *Identifying inverse trig function domain and ranges	21 *Use different strategies to prove identities	22 *Use different strategies to prove identities *Use addition and subtraction identities *Use cofunction identities	23-Quiz *Quiz-proving trig identities *Use double angle identity * Use half angle identity	24 *Use power reducing identity *Use power to sum and sum to power identities *Use appropriate rule to solve trig identities	25
26-Week 13	27 *Review unit 7 *Use various trig identities to prove and solve trig identities	28-Test Unit 7	29 *Law of Sines *Ambiguous case *Oblique, Law of Cosines	30 *Find area using formulas *Solve real world problems		

May 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Week 13					1-Quiz *Quiz-Law of sines and Cosines *Define the complex plane *Graph complex numbers in the complex plane *Find absolute value of a complex number	2
Week 14	4 *Express a complex number in polar form *Perform polar multiplication and division	5 *Calculate power and roots to complex numbers *find and graph roots of unity	6-Quiz *Quiz- Complex operations and polar form *Find components and magnitude of a vector *Perform scalar mult., vector addition and subtr.	7 Interim *Perform Operations with linear combinations *Determine direction angle of a vector *Determine resultant forces in physical Applications	8 *Find the dot product of two vectors and the angle between two vectors. *Determine projection and component vectors and use them in physical applications	9
Week 15 Mother's Day	11-Test Review *Law of sines and Cosines *Vectors *Operations with complex and polar	12-Test Unit 8 *Law of sines and Cosines *Vectors *Operations with complex and polar	13 *Define and write equation for Ellipse *Identify important characteristics and graph ellipses	14 *Define and write equation for hyperbola *Identify important characteristics and graph hyperbolas	15-Quiz *Quiz-Hyperbolas and Ellipses *Define ad write equations for parabolas *Identify important characteristics and graph	16
Week 16	18 *More practice with parabolas *Determine the shape of a translated conic without graphing	19 *Locate points in the polar coordinate system *Convert between polar and rectangular coordinate systems	20 *create graphs of equations in polar coordinates *Recognize the equations of a cardioid, rose, circle, lemniscates, ad limacon	21 *Define eccentricity of a ellipse, parabola, and a hyperbola *Develop and use the general polar equation of a conic section	22-Quiz *Conic Sections *Review before quiz	23
Week 17	25 Memorial Day No Students	26-Test Review * Ellipse, parabola, and hyperbola * Polar coordinates	27-Test Unit 9 * Ellipse, parabola, and hyperbola * Polar coordinates	28 *Parametric Equations	29 Review	30
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June 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Week 18	1 Review	2 Review	3 Review	4 Final Exams	5 Final Exams	6
7	8 Final Exams	9 <u>Last Day</u> Final Exams	10 Required Staff Development	11 Optional Workday	12 Optional Workday	13 <u>Graduation Day!!</u>
14	15 Optional Workday	16	17	18	19	20
21 Father's Day	22	23	24	25	26	27
28	29	30				

