

Unit	Essential Questions	Standards & Skills	Common Assessments	
Name: Linear Equations and Inequalities Quarter: 1st Length (Days): 10	Students will be able to: -write equations -solve equations using addition, subtraction, multiplication, and division -solve multi-step equations -graph inequalities on a number line -solve absolute value equations and inequalities	ILS: National Standards: CRS: WorkKeys Skills: CCSS: A-CED.1, A-CED.2, A-REI.1, A-REI.3	Formative: Kuta WS-solving equations, Graphing Simple Inequalities WS, WB 8, Activity 8, p. 25 #2-16 (evens), WB 10, WB 11, Chapter 1 Review Packet Summative: Chapter 1 Test	Te Eq Stu
Name: Linear Functions and Inequalities Quarter: 1st Length (Days): 15	Students will be able to: -recognize graphs of function equations -identify a set of ordered pairs as a function and give its domain and range -calculate slope of a function -identify slope, y-intercept, and roots of a linear equation -solve linear equations of the form $y = mx + b$ -graph linear equations	ILS: National Standards: CRS: WorkKeys Skills: CCSS: F-IF.1, F-IF.2	Formative: WB 12, Act. 13, Act. 14 (evens), p. 47 #1-10, 2.1-2.4 Review, WB 16 (evens), WB 17 (evens), WB 18, WB 19, WB 20, Review 2.5-2.9 Summative: Quiz 2.1-2.4, Quiz 2.5-2.9, Stain Glass Window Project, Slope Project	Te pra
Name: Quadratic Equations (Chapter 3 Sections 1-5) Quarter: 1st Length (Days): 8	Students will be able to: -use the distributive law for multiplying and factoring -solve quadratic equations of the form $ax^2 + bx + c = 0$	ILS: National Standards: CRS: WorkKeys Skills: CCSS: A-SSE.3a-b,	Formative: p. 73-74 #6-18, p. 78 #2-12 (evens), p. 80 #2-18 (evens), p. 82 #2-5 (all), p. 85 #5-10 (all), Review 3.1-3.5 Summative: Quiz 3.1-3.5,	Te of
Name: Quadratic Equations (Chapter 3 Sections 6-10) Quarter: 2nd Length (Days): 9	Students will be able to: -factor and solve by completing the square -use the quadratic formula -solve equations with complex roots -connect factoring skills to area problems in Geometry	ILS: National Standards: CRS: WorkKeys Skills: CCSS: <u>CCSS.MATH.CONTENT.HSA.REI.B.4.B,</u> <u>CCSS.MATH.CONTENT.HSA.SSE.B.3.A,</u> <u>CCSS.MATH.CONTENT.HSA.SSE.B.3.B,</u>	Formative: WB 27, WB 28, pg. 95 #6-11 all, 3.8 Kuta WS, pg. 100 #2-14 evens, pg. 103 #2-10 evens, 3.6-3.10 Review Summative: 3.6-3.10 Test	Te fol
Name: Quadratic Functions - Graphing Quarter: 2nd Length (Days): 18	Students will be able to: -find the value of a function for given domain values -graph functions of the form $f(x)=ax^2+c$ -graph quadratic functions using roots and the turning point -identify a function by reading its graph -solve systems of equations using substitution and elimination	ILS: National Standards: CRS: WorkKeys Skills: CCSS: <u>CCSS.MATH.CONTENT.HSF.I.F.A.2,</u> <u>CCSS.MATH.CONTENT.HSF.I.F.C.7.A,</u> <u>CCSS.MATH.CONTENT.HSA.REI.D.10,</u>	Formative: Act. 32 (evens), pg. 116 #1-4 all, Act. 35, WB 36, 4.1-4.5 Review, homework quizzes, Kuta software graphing WS, Kuta Substitution WS, Kuta Elimination WS, WB 39, 4.7-4.8 Review Summative: 4.1-4.5 Test, Quarter 2 project (parabolas), 4.7-4.8 Test	Te fol wo fol

		<u>CCSS.MATH.CONTENT.HSA.REI.C.6</u>		
Name: Polynomials - Sums, Products, Quotients Quarter: 2nd Length (Days): 7	Students will be able to: -add and subtract polynomials -expand binomials to the second and third power -factor the difference of squares and sum/difference of cubes -multiply polynomials -divide polynomials by factoring, dividing out common factors, and long division	ILS: National Standards: CRS: WorkKeys Skills: CCSS: <u>CCSS.MATH.CONTENT.HSA.APR.A.1,</u> <u>CCSS.MATH.CONTENT.HSA.SSE.B.3.A</u>	Formative: Act. 41, WB 42, Act. 44 (evens), Act. 43, Act. 45, 5.1-5.5 Review, Act. 46 Summative: Q2 EQA	Te
Name: Rational Expressions Quarter: 3rd Length (Days): 8	Students will be able to: -simplify rational expressions -add, subtract, multiply, and divide rational expressions -identify figures with equal angles and corresponding proportional sides as similar figures	ILS: National Standards: CRS: WorkKeys Skills: CCSS: <u>CCSS.MATH.CONTENT.HSA.APR.D.7,</u> <u>CCSS.MATH.CONTENT.HSG.SRT.C.6</u>	Formative: WB 49, WB 50 (evens), WB 51 (evens), WB 52 (evens), WB 53, HW Quiz, Ch. 6 Review Summative: Ch. 6 Test	Te
Name: Powers, Roots, Radicals, Fractional Exponents Quarter: 3rd Length (Days): 14	Students will be able to: -multiply and divide powers of the same base -recognize the relationship between positive and negative exponents -find roots of given numbers and to use the power rule to evaluate roots and powers -add, subtract, multiply and divide radical expressions -solve equations involving radicals -rationalize fractions containing radicals in the denominator	ILS: National Standards: CRS: WorkKeys Skills: CCSS: <u>CCSS.MATH.CONTENT.HSA.REI.A.2,</u> <u>CCSS.MATH.CONTENT.HSN.RN.A.2</u>	Formative: Act. 54, WB 54, Act. 55 Act. 56, 7.1-7.3 Review, 7.4 Kuta WS, WB 57, WB 58, Act. 60, 7.4-7.7 Review Summative: 7.1-7.3 Test, Q3 project (exponents brochure), 7.4-7.7 Test	Te inc
Name: Exponential and Logarithmic Functions Quarter: 3rd Length (Days): 11	Students will be able to: -evaluate and graph exponential functions -write numbers in scientific notation and go back to standard form -compute the value of expressions written in scientific notation -solve exponential and logarithmic equations -write equations in exponential and logarithmic form -use properties of logarithms to rewrite logarithmic expressions	CCSS: <u>CCSS.MATH.CONTENT.HSF.LE.A.1,</u> <u>CCSS.MATH.CONTENT.HSF.LE.A.2,</u> <u>CCSS.MATH.CONTENT.HSF.LE.A.4,</u> CCSS.MATH.CONTENT.HSF.BF.B.5	Formative: WB 65, 8.3 Kuta WS, pg. 240 #1-9 all, WB 71, WB 72, 8.7-8 Kuta WS, WB 73 #1-8 all, 8.9 Kuta WS, HW Quiz, Ch. 8 Review Summative: Ch. 8 Test	Te
Name: Trigonometry Quarter: 4th Length (Days): 8	Students will be able to: -form trigonometric ratios of a right triangle identify the relationship between radians and degrees -change radian measure to degree measure -solve for missing sides in special right triangles	ILS: National Standards: CRS: WorkKeys Skills: CCSS: <u>CCSS.MATH.CONTENT.HSF.TF.A.1,</u> <u>CCSS.MATH.CONTENT.HSF.TF.C.9</u>	Formative: 10.1 Kuta WS, WB 86, 10.3 Kuta WS, 10.1-10.3 Review Summative: Project (SOHCAHTOA), 10.1-10.3 Test	Te no

<p>Name: Permutations, Combinations, Probability, and Series Quarter: 4th Length (Days): 16</p>	<p>Students will be able to: -Use the fundamental counting principle to determine the total number of combinations available for a given number of items -compute permutations and combinations -compute the number of samples formed -calculate the probability of events -perform operations with arithmetic sequences and series -perform operations with geometric sequences and series</p>	<p>ILS: National Standards: CRS: WorkKeys Skills: CCSS: <u>CCSS.MATH.CONTENT.HSS.CP.B.6,</u> <u>CCSS.MATH.CONTENT.HSS.CP.B.9</u></p>	<p>Formative: WB 96, WB 97, WB 98, Act. 98, Act. 99, pg. 375 #2-10 even, HW Quiz, 11.1-11.5 Review, Act. 101, 11.8 Kuta WS, 11.9 Kuta WS, HW Quiz, 11.6-11.9 Review Summative: 11.1-11.5 Test, 11.6-11.9 Test</p>	<p>Te no</p>
<p>Name: Complex Numbers, Mathematical Induction, Operations with Functions Quarter: 4th Length (Days): 15</p>	<p>Students will be able to: -add, subtract, and multiply complex numbers -divide complex numbers using the conjugate -add, subtract, multiply and divide functions -recognize restrictions that affect calculations with functions -compute compositions of functions</p>	<p>ILS: National Standards: CRS: WorkKeys Skills: CCSS: <u>CCSS.MATH.CONTENT.HSN.CN.A.1,</u> <u>CCSS.MATH.CONTENT.HSN.CN.A.2,</u> <u>CCSS.MATH.CONTENT.HSN.CN.A.3</u></p>	<p>Formative: WB 108, 12.3 Kuta WS, 12.1-12.3 Review, Act. 111, Act. 112, 12.5-12.6 Kuta WS, WB 113, 12.8 Kuta WS, 12.5-12.8 Review Summative: 12.1-12.3 Test, 12.5-12.8 Test, Q4 project</p>	<p>Te inc</p>
<p>Name: Measurement and Statistics Quarter: 4th Length (Days): 9</p>	<p>Students will be able to: -convert measurements and solve problems involving conversions between metric measurements -convert from one unit of mass and capacity to another -convert between customary units of weight, capacity and length -solve problems involving time and rate conversions -display data in a frequency table, stem-and-leaf plot, histogram, and circle graph -calculate range, mean, median and mode of a data set</p>	<p>ILS: National Standards: CRS: WorkKeys Skills: CCSS: <u>CCSS.MATH.CONTENT.HSS.I D.A.1,</u> <u>CCSS.MATH.CONTENT.HSS.I D.A.2</u></p>	<p>Formative: WB 117, WB 118, Customary Units WS, WB 121, pg. 455 #1-6 all, WB 122, Act. 122, WB 123, Ch. 13 Review Summative: Ch. 13 Test</p>	<p>Te pra</p>