Buford High School CURRICULUM CALENDAR 2015-2016

COURSE: Advanced Algebra	SEMESTER: Spring 2016
TEACHER(S): Justin Johnson, Matt Jones, Kristina Oldeen	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (CCGPS, GPS, AP)
Week 1	Monday, 1/4	FACULTY AND STAFF PROFESSIONAL LEARNING DAY / STUDENT HOLIDAY			
	Tuesday, 1/5	6-3 &6-5 Review	Assessment	Classwork: Worksheet to review concepts from 6-3 and 6-5 prior to starting 6-4 tomorrow	MCC9-12.A.REI.11 MCC9-12.A.REI.2 MCC9-12.A.CED.3 MCC9-12.A.CED.1 MCC9-12.A.APR.7+
	Wednesday, 1/6	6-4: Rational Functions	Graph Rational Functions Transform rational functions by changing parameters	Warm Up: basic factoring review Key Vocabulary: rational function, vertical asymptote, horizontal asymptote, discontinuous function, continuous function - Notes on the parent graph of rational functions and their transformations Homework: pg. 211 #2-7	MCC9-12.F.BF.3 MCC9-12.F.IF.5 MC9-12.F.IF.7d(+)
	Thursday, 1/7	6-4: Rational Functions	Graph Rational Functions Transform rational functions by changing parameters	Warm Up: basic factoring review Key Vocabulary: rational function, vertical asymptote, horizontal asymptote - Continue examples on the parent graph of rational functions and their transformations - Notes on identifying vertical and horizontal asymptotes, domain, and range of rational functions using their equations & graphs Homework: pg. 211 #17-22	MCC9-12.F.BF.3 MCC9-12.F.IF.5 MC9-12.F.IF.7d(+)
	Friday, 1/8	6-4: Rational Functions	Graph Rational Functions Transform rational functions by changing parameters	Warm Up: basic factoring review Key Vocabulary: rational function, vertical asymptote, horizontal asymptote, zeros, slant asymptote - Notes on using a calculator to graph rational functions with a polynomial in the numerator - Notes on identifying vertical, horizontal, and slant asymptotes, zeroes, domain, and range of rational functions using their equations & graphs Homework: pg. 211 #8-10, 14-16	MCC9-12.F.BF.3 MCC9-12.F.IF.5 MC9-12.F.IF.7d(+)

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Week 2	Monday, 1/11	6-4: Rational Functions	Graph Rational Functions Transform rational functions by changing parameters	Classwork: Students will work in groups to review graphing of rational functions and listing their characteristics	MCC9-12.F.BF.3 MCC9-12.F.IF.5 MC9-12.F.IF.7d(+)
	Tuesday, 1/12	6-4: Rational Functions	Assessment	6-4 Quiz (Graphing rational functions without holes)	MCC9-12.F.BF.3 MCC9-12.F.IF.5 MC9-12.F.IF.7d(+)
	Wednesday, 1/13	6-4: Rational Functions	Graph Rational Functions Transform rational functions by changing parameters	Warm Up: give a rational function problem to identify its characteristics Key Vocabulary: holes in graphs of rational functions - Examples on graphing and identifying those functions with holes in their graphs Classwork/Homework: pg. 211 #33-38 (graph each)	MCC9-12.F.BF.3 MCC9-12.F.IF.5 MC9-12.F.IF.7d(+)
	Thursday, 1/14	6-4: Rational Functions	Review	Students will work in groups to review concepts from 6-4	MCC9-12.F.BF.3 MCC9-12.F.IF.5 MC9-12.F.IF.7d(+)
	Friday, 1/15	6-4 Test	Assessment	**6-4 Test**	MCC9-12.F.BF.3 MCC9-12.F.IF.5 MC9-12.F.IF.7d(+)

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Week 3	Monday, 1/18		**MLK HOLIDAY**		
	Tuesday, 1/19	7-1: Radical Functions	Graph radical functions and inequalities Transform radical functions by changing parameters	Warm Up: evaluate radical parent function for different values of x and graph the points Key Vocabulary: radical function, square root function, vertical compression, horizontal compression - Discuss transformations of radical functions (focus on compressions since we did not do this with rational functions) - Talk about the shape of radical functions Homework: pg. 232 #8-16 (list transformations only)	MCC9-12.F.IF.5 MCC9-12.F.IF.7b MCC9-12.F.BF.3
	Wednesday, 1/20	7-1: Radical Functions	Graph radical functions and inequalities Transform radical functions by changing parameters	Warmup: List the transformations of a square root function - Have students develop square root function by taking the inverse of x^2 - Discuss domain and range of square root function - Create chart of transformations - Notes on graphing square root functions using transformations Homework: p. 232 #30-38	MCC9-12.F.IF.5 MCC9-12.F.IF.7b MCC9-12.F.BF.3
	Thursday, 1/21	7-1: Radical Functions	Graph radical functions and inequalities Transform radical functions by changing parameters	Warmup: Graph a square root function - Discuss domain and range of cube root function - Create chart of transformations - Notes on graphing cube root functions using transformations Homework: p. 232 #5-7, 27-29	MCC9-12.F.IF.5 MCC9-12.F.IF.7b MCC9-12.F.BF.3
	Friday, 1/22	7-1: Radical Functions	Graph radical functions and inequalities Transform radical functions by changing parameters	Warmup: Graph a cube root function Classwork: Students will work on a worksheet involving graphing square root and cube root functions and listing their transformations.	MCC9-12.F.IF.5 MCC9-12.F.IF.7b MCC9-12.F.BF.3

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Week 4	Monday, 1/25	7-1: Radical Functions	Graph radical functions and inequalities Transform radical functions by changing parameters	Warmup: List the domain and range of a square root and cube root function - Review Homework - Notes on Inequalties - Notes on graphing radical inequalities Homework: p. 232 #20-23, 43-46	MCC9-12.F.IF.5 MCC9-12.F.IF.7b MCC9-12.F.BF.3
	Tuesday, 1/26	7-1: Radical Functions	Graph radical functions and inequalities Transform radical functions by changing parameters	Warmup: Graph a radical inequality - Review Homework - Notes on writing radical functions based on transformations Homework: p. 232 #17-18, 39-41	MCC9-12.F.IF.5 MCC9-12.F.IF.7b MCC9-12.F.BF.3
	Wednesday, 1/27 Performance Essay English	7-1: Radical Functions	Review	Classwork: Students will work in groups to review concepts from 7-1 including graphing radical functions and writing radical functions based on transformations	MCC9-12.F.IF.5 MCC9-12.F.IF.7b MCC9-12.F.BF.3
	Thursday, 1/28	7-1: Radical Functions	Assessment	7-1 Quiz	MCC9-12.F.IF.5 MCC9-12.F.IF.7b MCC9-12.F.BF.3
	Friday, 1/29	7-2: Solving Radical Equations & Inequalities	Solve radical equations and inequalities	Warm Up: Solve quadratic by square root method Key Vocabulary: radical equation, radical inequality - Notes on solving equations with one radical - Independent practice on this concept - Notes on solving equations with two radicals Homework: p. 241 (27-35)	MCC9-12.A.REI.2

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WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (CCGPS, GPS, AP)
Week 5	Monday, 2/1	7-2: Solving Radical Equations & Inequalities	Solve radical equations and inequalities	Warm Up: extraneous solution check Key Vocabulary: radical equation, radical inequality - Review homework - Have students solve an equation with an extraneous solution to see if they catch it - Notes on solving equations with rational exponents - Notes on solving radical inequalities - Classwork: 5 problems to turn in Homework: p. 241-243 (36-44)	MCC9-12.A.REI.2
	Tuesday, 2/2	7-2: Solving Radical Equations & Inequalities	Solve radical equations and inequalities	Warmup: Solve a radical inequality Classwork: Students will work on a carousel activity in pairs to review solving radical equations and inequalities	MCC9-12.A.REI.2
	Wednesday, 2/3	Ch. 7 Review	Assessment	Classwork: Students will work in groups to review all concepts from ch. 7	MCC9-12.F.IF.5 MCC9-12.F.IF.7b MCC9-12.F.BF.3 MCC9-12.A.REI.2
	Thursday, 2/4	Ch. 7 Test	Assessment	**Module 7 Test**	MCC9-12.F.IF.5 MCC9-12.F.IF.7b MCC9-12.F.BF.3 MCC9-12.A.REI.2
	Friday, 2/5	Benchmark Review		Benchmark Review – collaborative pairs/groups	All previous standards

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Week 6 Benchmark Week #1	Monday, 2/8 ENGLISH	Benchmark Review		Benchmark Review – collaborative pairs/groups	All previous standards
	Tuesday, 2/9 MATH	Benchmark Review		**Benchmark #1**	All previous standards
	Wednesday, 2/10 ELECTIVES	8-2: Inverses of Relations & Functions		Warm Up: Solving an equation for y in terms of x Key Vocabulary: inverse relation, inverse function - Notes on graphing inverse relations over the line y=x - Graph relations then graph their inverse identifying domain and range of each - Write inverses of functions using inverse operations Homework: pg. 269 #2-13, 18,19	MCC9-12.F.BF.4c MCC9-12.F.BF.4a MCC9-12.A.CED.2
	Thursday, 2/11 SCIENCE	8-2: Inverses of Relations & Functions		Warm Up: Write the inverse of a function - Notes on graphing linear functions and their inverses over the line y=x Homework: pg. 270 #14-16, 20-28	MCC9-12.F.BF.4c MCC9-12.F.BF.4a MCC9-12.A.CED.2
	Friday, 2/12 SOCIAL STUDIES	8-1: Exponential Functions, Growth & Decay	Write and evaluate exponential expressions to model growth and decay	Warm Up: Evaluating exponential functions Key Vocabulary: exponential function, base, asymptote, exponential growth & decay - Notes on identifying growth vs decay - Discuss exponential functions and what they look like - Discuss asymptotes Classwork: pg. 261 #2-4, 7-9 (also add in problems on finding the asymptote)	MCC9-12.F.IF.7e MCC9-12.A.CED.2

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WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (CCGPS, GPS, AP)
Week 7	Monday, 2/15	Winter Holiday			
	Tuesday, 2/16				
	Wednesday, 2/17				
	Thursday, 2/18	FACULTY AND STAFF PROFESSIONAL LEARNING DAY / STUDENT HOLIDAY			
	Friday, 2/19				

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WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (CCGPS, GPS, AP)
Week 8	Monday, 2/22	Review	Assessment	Warmup: Write and graph the inverse of a linear function Classwork: Students will work in groups to review inverse functions, writing inverses, and identifying growth and decay.	MCC9-12.F.IF.7e MCC9-12.A.CED.2 MCC9-12.F.BF.4c MCC9-12.F.BF.4a
	Tuesday, 2/23	8-1: Exponential Functions, Growth & Decay	Write and evaluate exponential expressions to model growth and decay	Warm Up: Questions covering growth & decay concepts Key Vocabulary: exponential function, base, asymptote, exponential growth & decay - Notes on graphing exponential functions - Notes on finding the domain and range of exponential functions Homework: Assign students problems to graph	MCC9-12.F.IF.7e MCC9-12.A.CED.2
	Wednesday, 2/24 Performance Essay Math			**Math Performance Essay**	
	Thursday, 2/25	8-1: Exponential Functions, Growth & Decay	Write and evaluate exponential expressions to model growth and decay	Warm Up: Graph and list the domain and range of an exponential function Key Vocabulary: exponential function, base, asymptote, exponential growth & decay - Solving word problems using exponential functions - Discuss how to solve these using a calculator Homework: worksheet with word problems	MCC9-12.F.IF.7e MCC9-12.A.CED.2
	Friday, 2/26	Review	Assessment	Classwork: Students will work in groups to review all concepts from 8-1 and 8-2 including exponential functions, writing inverses, graphing inverses, and solving word problems	MCC9-12.F.IF.7e MCC9-12.A.CED.2 MCC9-12.F.BF.4c MCC9-12.F.BF.4a

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WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (CCGPS, GPS, AP)
Week 9	Monday, 2/29	8.1-8.2 Quiz	Assessment	8.1-8.2 Quiz	MCC9-12.F.IF.7e MCC9-12.A.CED.2 MCC9-12.F.BF.4c MCC9-12.F.BF.4a
	Tuesday, 3/1	8-3: Logarithmic Functions	Write equivalent forms for exponential and logarithmic functions	Warm Up: Review rational exponents from 1st semester Key Vocabulary: logarithm, common logarithm - Notes on logarithms as inverses of exponential expressions/equations - Examples on converting from Exponential to Logarithmic Form and vice-versa - Evaluating logarithms using mental math/operations Homework: pg. 277 #2-13, 17-28	MCC9-12.F.BF.5+
	Wednesday, 3/2 Performance Essay Social Studies	8-3: Logarithmic Functions	Write equivalent forms for exponential and logarithmic functions	Warm Up: pg. 280 #19-31 odd Students will complete review problems from section 8-3 found in the student workbook	MCC9-12.F.BF.5+
	Thursday, 3/3	Ch. 8 Review	Assessment	Review for Module 8 test – students will work in collaborative pairs/groups in order to complete the assignment/activity	All module 8 standards
	Friday, 3/4	Ch. 8 Test	Assessment	**Module 8 Test**	All module 8 standards

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Week 10	Monday, 3/7	9-1: Properties of Logarithms	Use properties to simplify logarithmic expressions	Warm Up: Use warm up on PowerPoint presentation CD - Notes on Product Property, Quotient Property, Inverse, and Power Property of Logarithms - Examples of simplifying logarithms using properties Homework: pg. 288 #1-14, 20-24	MCC9-12.F.BF.5+ MCC9-12.F.IF.8b
	Tuesday, 3/8	9-1: Properties of Logarithms	Use properties to simplify logarithmic expressions Translate between logarithms in any base	Review of Homework - Notes on Change of Base Formula Classwork/Homework: pg. 288-9 #25-34, 37-45, worksheet on expanding and condensing logs	MCC9-12.F.BF.5+ MCC9-12.F.IF.8b
	Wednesday, 3/9	9-2: Exponential & Logarithmic Equations & Inequalities	Solve exponential and logarithmic equations	Warm Up: Simplifying Logarithmic Expressions Key Vocabulary: exponential & logarithmic equations - Notes on solving exponential equations using common bases and logarithms Homework: pg. 296 #2-16 all	MCC9-12.F.LE.4 MCC9-12.F.BF.5+
	Thursday, 3/10	9-2: Exponential & Logarithmic Equations & Inequalities	Solve exponential and logarithmic equations	Warm Up: Review previous night's homework - Solving logarithmic equations using properties and exponents to rewrite Classwork: Students will add the following to previous night's homework – pg. 296 #21-33	MCC9-12.F.LE.4 MCC9-12.F.BF.5+
	Friday, 3/11	Review	Assessment	Classwork: Students will work on a worksheet in pairs to practice concepts from 9.1-9.2, this will be turned in for a grade	MCC9-12.F.LE.4 MCC9-12.F.BF.5+ MCC9-12.F.IF.8b

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Week 11	Monday, 3/14	FACULTY AND STAFF PROFESSIONAL LEARNING DAY / STUDENT HOLIDAY			
	Tuesday, 3/15	9-3: The Natural Base, e	Solve equations and problems involving e or natural logarithms	Warmup: Solve a logarithmic equation - Notes on simplifying expressions with e or ln - Solving logarithmic and exponential equations with e and ln Homework: pg. 302 #6-12, 17-22	MCC9-12.F.BF.5+ MCC9-12.A.CED.2
	Wednesday, 3/16 Performance Essay Science	9-3: The Natural Base, e	Solve equations and problems involving e or natural logarithms	Review previous night's homework - Notes on solving word problems using logarithmic and exponential equations (include problems with e and ln) Homework: worksheet on solving word problems	MCC9-12.F.BF.5+ MCC9-12.A.CED.2
	Thursday, 3/17 Early Release Professional Learning (1st, 2nd, 3rd, 5th)	9-3: The Natural Base, e	Solve equations and problems involving e or natural logarithms	Warm Up: pg. 306 #1-33 odd Students will complete review of section 9-3 from the student workbook	MCC9-12.F.BF.5+ MCC9-12.A.CED.2
	Friday, 3/18 Early Release Professional Learning (7th, 6th, 4th, 5th)	9-3: The Natural Base, e	Solve equations and problems involving e or natural logarithms	Warm Up: pg. 306 #1-33 odd Students will complete review of section 9-3 from the student workbook	MCC9-12.F.BF.5+ MCC9-12.A.CED.2

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WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (CCGPS, GPS, AP)
Week 12	Monday, 3/21	Ch. 9 Review	Review	Review of Module 9 – assign pg. 306 #2-32 even Use supplemental materials if necessary to keep students engaged throughout the period	All module 9 standards
	Tuesday, 3/22	Ch. 9 Test	Assessment	**TEST MODULE 9**	All module 9 standards
	Wednesday, 3/23	12-3: Piecewise Functions	Write and graph piecewise functions. Use piecewise functions to describe real-world situations.	Warm Up: Use warm up given on teacher PowerPoint Key Vocabulary: piecewise function, step function - Create a table and a verbal description to represent the graph of piecewise/step functions - Evaluate piecewise functions - Graph step functions Homework: pg. 394 #2-7	MCC9-12.F.IF.4 MCC9-12.F.IF.2 MCC9-12.F.IF.7b MCC9-12.A.CED.2
	Thursday, 3/24	12-3: Piecewise Functions	Write and graph piecewise functions. Use piecewise functions to describe real-world situations.	Warm Up: pg. 400 #4-7 - Graph piecewise functions involving linear functions - Examples on real-world problems incorporating piecewise functions Homework: pg. 394-5 #9-19 (linear only)	MCC9-12.F.IF.4 MCC9-12.F.IF.2 MCC9-12.F.IF.7b MCC9-12.A.CED.2
	Friday, 3/25	12-3: Piecewise Functions	Write and graph piecewise functions. Use piecewise functions to describe real-world situations.	Warmup: Example of evaluating a piecewise quadratic function - Graph piecewise functions involving quadratic functions Homework: pg. 394-5 #9-19 (include quadratics)	MCC9-12.F.IF.4 MCC9-12.F.IF.2 MCC9-12.F.IF.7b MCC9-12.A.CED.2

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WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (CCGPS, GPS, AP)
Week 13	Monday, 3/28	12-3: Piecewise Functions	Write and graph piecewise functions. Use piecewise functions to describe real-world situations.	Classwork: Students will work individually to review graphing and evaluating all piecewise functions.	MCC9-12.F.IF.4 MCC9-12.F.IF.2 MCC9-12.F.IF.7b MCC9-12.A.CED.2
	Tuesday, 3/29	Quiz on 12.3	Assessment	Quiz over 12.3 (include evaluating and graphing piecewise functions)	MCC9-12.F.IF.4 MCC9-12.F.IF.2 MCC9-12.F.IF.7b MCC9-12.A.CED.2
	Wednesday, 3/30 Performance Essay Electives	13-1: Transforming Polynomial Functions	Transform polynomial functions	Warm Up: Review of Exponential Functions - Review of transformations from linear & quadratic functions previously learned - Examples on translating polynomial functions - Show how to reflect polynomial functions over the x and y axes - Examples on how to compress and stretch polynomial functions Homework: pg. 407 #1-12	MCC9-12.F.BF.3
	Thursday, 3/31	13-1: Transforming Polynomial Functions	Transform polynomial functions	Warm Up: Exponential Function review - Word problem examples on interpreting transformations in polynomial equations Classwork/Homework: pg. 407-8 #13-25	MCC9-12.F.BF.3 MCC9-12.F.BF.1
SPRING BREAK! **Friday, 4/1 → Friday, 4/8**					

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WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (CCGPS, GPS, AP)
Week 14 Benchmark Week #2	Monday, 4/11	Review	Review	We will do an activity today to review concepts from 12.3 and 13.1. We will be working on piecewise functions and transforming polynomial functions. Students will complete a worksheet to turn in.	
	Tuesday, 4/12	13-1: Transforming Polynomial Functions	Graph Absolute Value Functions Identify characteristics of absolute value functions and their graphs	Review previous night's homework - Notes on graphing absolute value functions and describing the transformations Homework: 13.1 Extension problems	MCC9-12.F.BF.3 MCC9-12.F.IF.7b
	Wednesday, 4/13 SCIENCE	Review		We will do an activity today to review end behavior and adding/subtracting rational expressions. Students were weak in these areas, and we need to focus on them prior to the SLO.	
	Thursday, 4/14 SOCIAL STUDIES	Benchmark Review		Benchmark Review – students will work in collaborative pairs/groups to complete review assignment or activity	
	Friday, 4/15 ELECTIVES	Benchmark Review		Benchmark Review – students will work in collaborative pairs/groups to complete review assignment or activity	

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Week 15 Benchmark Week #2	Monday, 4/18 ENGLISH	Benchmark Review		Benchmark Review – students will work in collaborative pairs/groups to complete review assignment or activity	
	Tuesday, 4/19 MATH	Benchmark (SLO)		**BENCHMARK #2 (SLO)**	
	Wednesday, 4/20	13-2: Transforming Exponential and Logarithmic Functions		Warm Up: Use warm up given on teacher PowerPoint CD Key Vocabulary: exponential function, logarithmic function - Show examples on translating exponential and logarithmic functions using the equation $f(x)=a(b)^x$ - Show examples of reflecting, stretching, and compressing exponential and logarithmic functions Classwork/Homework: pg. 418 #2-14 even, pg. 419 #16-30 even	MCC9-12.F.BF.3
	Thursday, 4/21	Ch. 12/13 Review	Review	Classwork: Students will work together in pairs to review concepts from chapter 12 and 13.	MCC9-12.F.IF.4 MCC9-12.F.IF.2 MCC9-12.F.IF.7b MCC9-12.A.CED.2 MCC9-12.F.BF.3 MCC9-12.F.BF.1
	Friday, 4/22	Ch. 12/13 Test	Assessment	**Test Module 13 and 12.3**	MCC9-12.F.IF.4 MCC9-12.F.IF.2 MCC9-12.F.IF.7b MCC9-12.A.CED.2 MCC9-12.F.BF.3 MCC9-12.F.BF.1

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WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (CCGPS, GPS, AP)
Week 16	Monday, 4/25	14-1: Operations With Functions	Add, subtract, multiply and divide functions	Warm Up: Rational function/foil review - Notes on adding and subtracting functions - Notes on multiplying and dividing functions Classwork/Homework: pg. 438 #2-7 and 15-23	MCC9-12.F.BF.1b
	Tuesday, 4/26	14-1: Operations With Functions	Write and evaluate composite functions	Warm Up: Use warm up on PowerPoint presentation CD Key Vocabulary: composition of functions - Notes on composition of functions - Evaluating and writing composite functions (use a variety of functions) Homework: pg. 438 #8-13, 24-32	MCC9-12.F.BC.1c(+)
	Wednesday, 4/27	14-1: Operations With Functions	Review	Review previous night's homework Classwork: Students will complete a worksheet to practice operations with functions and compositions of functions	MCC9-12.F.BF.1b MCC9-12.F.BC.1c(+)
	Thursday, 4/28	14-2: Functions & Their Inverses	Determine whether the inverse of a function is a function Write rules for the inverses of functions	Warm Up: Graph an exponential and logarithm with the same base to preview inverse functions - Notes on using the horizontal line test to determine whether the inverse of a relation is a function - Notes on writing rules for inverses of functions Homework: pg. 445-6 #1-6, 9-17	MCC9-12.F.BF.4b(+) MCC9-12.F.BF.4
	Friday, 4/29	14-2: Functions & Their Inverses		Determine which material from 14-2 needs to be re-delivered or earlier material that must be reviewed before approaching test This day may also be used as an additional "buffer" day in case the pacing of the calendar is off	

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Week 17	Monday, 5/2	Ch. 14 Review	Review	Review of Module 14 – students may work in collaborative pairs/groups to complete review assignment/activity Assign students pg. 450 #1-19, 22-31 for review	All module 14 standards
	Tuesday, 5/3	Ch. 14 Test	Assessment	**TEST MODULE 14**	All module 14 standards
	Wednesday, 5/4	2-1: Significance of Experimental Results	Use simulations and hypothesis testing to compare treatments from a randomized experiment	Warm Up: Use warm up exercises on teacher PowerPoint CD Key Vocabulary: hypothesis testing, null hypothesis - Notes on when hypothesis testing is used and the definition of a null hypothesis - Show students how to use box and whisker plots to support/disprove null hypotheses Classwork/Homework: pg. 39 & 40 #3,4,7-9	MCC9-12.S.IC.5
	Thursday, 5/5	2-1: Significance of Experimental Results	Use simulations and hypothesis testing to compare treatments from a randomized experiment	Warm Up: pg. 66 #2-3 Key Vocabulary: z-value, z-test - Notes on definition of a z-value/z-test - Notes on using a z-test to reject or accept a null hypothesis - Use example 2 on pg. 38 Classwork/Homework: pg. 40 & 41 #5,6,11-13	MCC9-12.S.IC.6
	Friday, 5/6	2-1: Significance of Experimental Results	Use simulations and hypothesis testing to compare treatments from a randomized experiment	Review previous night's homework Classwork: Students will complete a worksheet to review hypothesis testing using both box and whisker plots and z-test	MCC9-12.S.IC.5 MCC9-12.S.IC.6
AP Exams Monday, 5/2 – AP Chem, AP Enviro Science, and AP Psych Tuesday, 5/3 – AP Spanish Language Wednesdays, 5/4 – AP English Literature Thursday, 5/5 – AP Calculus Friday, 5/6 – AP US History, AP Studio Art				Milestones To be determined.	

COURSE: Advanced Algebra	SEMESTER: Spring 2016
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WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (CCGPS, GPS, AP)
Week 18	Monday, 5/9	2-2: Sampling Distributions	Estimate the population means and proportions and develop margins of error from simulations involving random sampling Analyze surveys, experiments, and observational studies to judge the validity of conclusions	Warm Up: Use the warmup given on teacher PowerPoint CD Key Vocabulary: simple random, systematic, stratified, cluster, convenience, self-selected, probability, margin of error - Notes on types of samples and how to classify a sample (use book and PowerPoint examples) - Show chart on probability sampling identifying most accurate vs least accurate types - Show examples of how to evaluate the best type of sampling method to be used in a survey - Notes on how to interpret margin of error Homework: pg. 48-50 #2-22	MCC9-12.S.IC.3 MCC9-12.S.IC.4
	Tuesday, 5/10	2-3: Fitting to a Normal Distribution	Use tables to estimate areas normal curves Recognize data sets that are not normal	Warm Up: Review of 2-1 (null hypothesis & z-test) Key Vocabulary: standard normal value/curve, "bell" curve - Notes on estimating probabilities using a normal curve - Notes on using standard normal values (z-score) - Notes on determining whether data may be normally distributed Homework: pg. 55 & 56 #2-19	MCC9-12.S.ID.4
	Wednesday, 5/11	2-3: Fitting to a Normal Distribution	Use tables to estimate areas normal curves Recognize data sets that are not normal	Review previous night's homework Classwork: Students will complete a worksheet to practice finding z-scores and using them to estimate probabilities	MCC9-12.S.ID.4
	Thursday, 5/12	2-1 thru 2-3	Review	Warm Up: pg. 66 #4-7 Use student workbook to identify problems for review. Have students work in collaborative pairs.	MCC9-12.S.IC.3 MCC9-12.S.IC.4 MCC9-12.S.ID.4
	Friday, 5/13	Quiz 2-1 thru 2-3		**QUIZ 2-1 thru 2-3**	
AP Exams Monday, May 9 – AP Biology and AP Music Theory				Milestones To be determined.	

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Tuesday, May 10 – AP Government
Wednesday, May 11– AP English Language and AP Macroeconomics
Thursday, May 12 – AP World History and AP Statistics
Friday, May 13 – AP Human Geography

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (CCGPS, GPS, AP)
Week 19	Monday, 5/16	2-4: Analyzing Decisions	Explain that probability can be used to help determine if good decisions are made Use probabilities to analyze decisions and strategies	Warm Up: Use warmup given in teacher PowerPoint CD Key Vocabulary: probability, expected value - Notes on definition of probability - Notes on finding expected value - Examples on using expected value in real-world situations Homework: pg. 62-63 #2-23	MCC9-12S.MD.3(+) MCC9-12.MD.5b(+)
	Tuesday, 5/17	Ch. 2 Review	Review	Review for Module 2 Test. Students will work on review in collaborative pairs or groups	All module 2 standards
	Wednesday, 5/18	Ch. 2 Test	Assessment	**TEST MODULE 2**	All module 2 standards
	Thursday, 5/19	Exam Review		Exam Review-TBD	
	Friday, 5/20	Exam Review		Exam Review-TBD	

Buford High School CURRICULUM CALENDAR 2015-2016

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WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (CCGPS, GPS, AP)
Week 20 Benchmark Week #3	Monday, 5/23	Senior Exams (Benchmark #3 – 5th, 6th, & 7th)			
	Tuesday, 5/24	Senior Exams (Benchmark #3 – 1st, 2nd, 3rd, & 4th) / Semester Exams (Benchmark #3 – 7th)			
	Wednesday, 5/25	Semester Exams (Benchmark #3 – 1st & 2nd)			
	Thursday, 5/26	Semester Exams (Benchmark #3 – 3rd & 4th)			
	Friday, 5/27	Semester Exams (Benchmark #3 – 5th & 6th)			