Buford High School CURRICULUM CALENDAR 2015-2016

COURSE: Advanced Algebra	**SEMESTER: Fall 2015**
TEACHER(S): Justin Johnson, Kristina Oldeen, & Matt Jones	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (CCGPS, GPS, AP)
Week 1	Thursday, 8/6	Syllabus	First Day of School	Intro to class Syllabus Rules PowerPoint provided by BHS covering agenda pages	
	Friday, 8/7	Intro to Adv Algebra	Review of Analytic Geometry Concepts	Students will be given problems from the diagnostic test located in the student assessment booklet in order to review key concepts from Analytic Geometry Focus should be on simplifying with I, quadratic equations, factoring, and polynomials	

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Week 2 SLO Pre-Tests This Week!	Monday, 8/10	SLO	Student Learning Objectives	- Begin class with algebraic warm up problems on solving equations - SLO Pre-Test is given to students; should take them around 25-30 minutes to complete - All tests, scantrons, & scratch paper is to be collected by each teacher to turn in	
	Tuesday, 8/11	Complex Numbers Review	Simplifying Radicals & Using the imaginary number "i" to write complex numbers	- Warm up on basic simplification of radicals to gauge students' abilities - Notes on simplifying basic radical expressions (square roots only) in both standard and fraction form - Re-introduce complex numbers and the use of "i" to simplify radicals further - Homework pg. 4 #1-33 odd & pg. 5 #1-33 odd from scanned Math II book pages	MGSE9-12.N.CN.1
	Wednesday, 8/12	Complex Numbers Review	Operations With Complex Numbers	- Warm up of types of problems from previous lesson - Review of Homework - Notes on adding, subtracting, & multiplying complex numbers - Powers of "i" – be sure to show how to break down only using i^2 and using rules of 4 - Homework pg. 9 #6-27 mult of 3 & pg. 13 #6-26 even from Math II book pages	MGSE9-12.N.CN.1 MGSE9-12.N.CN.2
	Thursday, 8/13	Complex Numbers Review	Dividing With Complex Numbers	- Warm up covering powers of "i" - Review of Homework - Notes on using conjugates to divide complex numbers - Homework pg. 14 #4-38 even from Math II book pages	MGSE9-12.N.CN.1 MGSE9-12.N.CN.2 MGSE9-12.N.CN.3
	Friday, 8/14	Complex Numbers Review	Assessment	Review any homework questions **QUIZ – COMPLEX NUMBERS REVIEW**	MGSE9-12.N.CN.1 MGSE9-12.N.CN.2 MGSE9-12.N.CN.

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Week 3	Monday, 8/17	3-1: Polynomials	Identify, evaluate, add, and subtract polynomials	Warm Up: warm up given in unit introduction Key Vocabulary: degree of monomial/polynomial, leading coefficient, polynomial function - Notes on identifying the degree of monomials and polynomials - Notes on classifying polynomials by degree, terms, and name - Adding/Subtracting polynomial examples Homework: pg. 80 #1-14, 19-30	MCC9-12.A.APR.1
	Tuesday, 8/18	3-2:Multiplying Polynomials	Multiply polynomials	Warm Up: Add/subtract polynomials - Notes/Examples of multiplying polynomials - Binomial x binomial, binomial x trinomial, & trinomial x trinomial Homework: pg. 88 #1-8, 10-13, 19-25 odd	MCC9-12.A.APR.1 MCC9-12.A.CED.1
	Wednesday, 8/19	3-1 &3-2: Polynomials	Identify, evaluate, add, subtract, and multiply polynomials	Warm Up: Multiply polynomials Group Activity to practice concepts from 3-1 and 3-2	MCC9-12.A.APR.1 MCC9-12.A.CED.1
	Thursday, 8/20	3-3: Binomial Distribution	Use binomial theorem to expand a binomial raised to a power	Warm Up: Evaluating expressions involving exponents Key Vocabulary: Binomial Theorem - Notes on Pascal's Triangle - Be sure to use higher powers to encourage Pascal's vs. writing out solution Homework: pg. 94-95 # 9-12, 17-20	MCC9-12.A.APR.5(+)
	Friday, 8/21	Complex #s and 3.1-3.3 Review	Students will review complex numbers and concepts from 3.1-3.3	Students will work in groups to review complex numbers, binomial theorem, and adding, subtracting, and multiplying polynomials	MCC9-12.A.APR.1 MCC9-12.A.CED.1 MCC9-12.A.APR.5(+)

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WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (CCGPS, GPS, AP)
Week 4	Monday, 8/24	Complex #s and 3.1-3.3 Review	Students will review complex numbers and concepts from 3.1-3.3	Students will work in groups to review complex numbers, binomial theorem, and adding, subtracting, and multiplying polynomials	MCC9-12.A.APR.1 MCC9-12.A.CED.1 MCC9-12.A.APR.5(+)
	Tuesday, 8/25	Complex #'s and 3.1-3.3 Test	Assessment	**Complex #'s and 3.1-3.3 Test**	MCC9-12.A.APR.1 MCC9-12.A.CED.1 MCC9-12.A.APR.5(+)
	Wednesday, 8/26	3-4: Dividing Polynomials	Use long division to divide polynomials	Warm Up: Review of Multiplying polynomials - Notes/examples on using long division to divide polynomials - Classwork: pg. 102 #2-4, 13-18	MCC9-12.A.APR.6
	Thursday, 8/27	3-4: Dividing Polynomials	Use synthetic division to divide polynomials	Warm Up: Review of Long Division of Polynomials Key Vocabulary: Synthetic division - Notes/Examples on synthetic division - Examples of using synthetic substitution to solve polynomials for a given value Summary: Solve the same division problem using both long and synthetic division Homework: pg. 324 #5-11, 19-27 odd, 39-48 all	MCC.MP.8 MCC9-12.A.APR.2
	Friday, 8/28	3-4: Dividing Polynomials	Use long division and synthetic division to divide polynomials	Warm Up: Review of Synthetic Division of Polynomials Division Worksheet: Students will work together on a worksheet to practice both long division and synthetic division	MCC9-12.A.APR.6 MCC.MP.8 MCC9-12.A.APR.2

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WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (CCGPS, GPS, AP)
Week 5	Monday, 8/31	Factoring Intro		Students will be given review items covering GCF, difference of squares, and basic factoring of trinomials in the form x^2+bx+c.	
	Tuesday, 9/1	Factoring Intro		Students will move onto factoring multi-step expressions and problems involving grouping.	
	Wednesday, 9/2 Performance Essay English	Factoring Review		Students will work in groups to review all factoring methods learned so far.	
	Thursday, 9/3	Factoring Quiz		Students will take a quiz over factoring using GCF, difference of squares, basic trinomials, grouping, and multi-step.	
	Friday, 9/4 Early Release (1^{st}, 2^{nd}, 3^{rd}, 5^{th})	Skill Building		Skill building activity to be determined based on quiz results and the perceived needs of students up to this point in the unit This date will also be used to fill in any "gaps" in the curriculum calendar that may have been affected by time	

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Week 6	Monday, 9/7	**LABOR DAY HOLIDAY**			
	Tuesday, 9/8	3-5: Factoring Polynomials	Factor the sum and difference of two cubes. Factor trinomials.	Warm Up: Find problems most missed from factoring quiz and have students perform at least 2-3 as they walk in Key Vocabulary: polynomial, factor, grouping, perfect cubes - Notes on factoring trinomials with a>1 - Notes on factoring the sum or difference of two cubes Homework: pg. 109 #10-15, Worksheet on factoring trinomials with a>1	MCC9-12.A.SSE.2
	Wednesday, 9/9	3-5: Factoring Polynomials	Factor binomials, trinomials, and the sum and difference of two cubes.	Warm Up: Review of factoring cubics Worksheet: Students will do a worksheet that involves a mix of factoring problems requiring students to know when and how to apply the different methods.	MCC9-12.A.SSE.2
	Thursday, 9/10	3.4-3.5 Review	Students will review concepts from 3-4 and 3-5.	Test review-Group Activity	MCC9-12.A.APR.6 MCC.MP.8 MCC9-12.A.APR.2 MCC9-12.A.SSE.2
	Friday, 9/11	3.4-3.5 Test	Assessment	**3.4-3.5 Test**	MCC9-12.A.APR.6 MCC.MP.8 MCC9-12.A.APR.2 MCC9-12.A.SSE.2

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WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (CCGPS, GPS, AP)
Week 7 Benchmark Week #1	Monday, 9/14	4-1: Finding Real Roots of Polynomial Equations	Find real roots of polynomial equations using factoring	Warm Up: Use warm up from teacher's edition - Notes on how to use factorization to solve polynomial equations - Discuss what the roots of equations represent when graphed Homework: 120 #2-7, 15-20	MCC9-12.A.APR.3 MCC9-12.A.CED.3
	Tuesday, 9/15	Benchmark Review	Benchmark Review Complex Numbers and Module 3	Group Activities to Review for Benchmark #1	
	Wednesday, 9/16 ENGLISH	Benchmark Review	Benchmark Review Complex Numbers and Module 3	Group Activities to Review for Benchmark #1	
	Thursday, 9/17 MATH	Benchmark		**FALL BENCHMARK #1**	
	Friday, 9/18 ELECTIVES	4-1: Finding Real Roots of Polynomial Equations	Find real roots of polynomial equations algebraically and using factoring and the quadratic formula.	Warm Up: Review solving polynomials by factoring Key Vocabulary: Quadratic Formula - Notes on how to solve polynomials algebraically - Notes on how to solve polynomials using the quadratic formula Homework: Worksheet on finding real roots of polynomial equations	MCC9-12.A.APR.3 MCC9-12.A.CED.3

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Week 8 Benchmark Week #1	Monday, 9/21 SCIENCE	4-1: Finding Real Roots of Polynomial Equations	Identify the multiplicity of roots Use the rational root theorem and irrational root theorem to solve polynomial equations	Warm Up: Solving polynomial equations with the quadratic formula Key Vocabulary: multiplicity - Discuss what the roots of equations represent when graphed - Identify multiplicity of polynomials - Definition of rational root theorem and use of synthetic division/substitution to solve polynomials Homework: 120 #8-9, 11-14, 21-22	MCC9-12.A.APR.3 MCC9-12.A.APR.2 MCC9-12.A.CED.3
	Tuesday, 9/22 SOCIAL STUDIES	4-1: Finding Real Roots of Polynomial Equations	Identify the multiplicity of roots Use the rational root theorem and irrational root theorem to solve polynomial equations	Warm Up: Use the rational root theorem and synthetic division to solve polynomial equations Review Homework Group Work: Students will work together on an activity to practice finding all real roots of a polynomial equation	MCC9-12.A.APR.3 MCC9-12.A.APR.2 MCC9-12.A.CED.3
	Wednesday, 9/23	4-1 & 4-2: Finding All Roots of Polynomial Equations	Identify all of the roots of a polynomial equation	Warm Up: Use warm-up from teachers' edition Key Vocabulary: The Fundamental Theorem of Algebra - Discuss fundamental theorem of algebra and its corollary - Notes on finding all roots of polynomial equations Homework: 127 #4-6, 14-19	MCC9-12.A.APR.3 MCC9-12.A.APR.2 MCC9-12.A.CED.3 CC.9-12.N.CN.9
	Thursday, 9/24	4-1 & 4-2: Finding All Roots of Polynomial Equations	Identify all of the roots of a polynomial equation	Warm Up: Finding all real solutions of a polynomial equation Review Homework Classwork: p. 127 #24-35 Students will work on classwork with a partner. We will then check answers together as a class	MCC9-12.A.APR.3 MCC9-12.A.APR.2 MCC9-12.A.CED.3 CC.9-12.N.CN.9
	Friday, 9/25	4-1 & 4-2: Finding All Roots of Polynomial Equations	Identify all of the roots of a polynomial equation	Warm Up: Finding all real solutions of a polynomial equation Carousel Activity: Students will work with a partner to do a class activity that reviews all concepts from 4-1 and 4-2.	MCC9-12.A.APR.3 MCC9-12.A.APR.2 MCC9-12.A.CED.3 CC.9-12.N.CN.9

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Week 9	Monday, 9/28	4.1-4.2 Review	Students will review concepts from 4-1 & 4-2	Test Review-Group Activity	MCC9-12.A.APR.3 MCC9-12.A.APR.2 MCC9-12.A.CED.3 CC.9-12.N.CN.9
	Tuesday, 9/29	4.1-4.2 Test	Assessment	**4.1-4.2 Test**	MCC9-12.A.APR.3 MCC9-12.A.APR.2 MCC9-12.A.CED.3 CC.9-12.N.CN.9
	Wednesday, 9/30 Performance Essay Math	Performance Essay		**Math Performance Essay**	
	Thursday, 10/1	4-2: Fundamental Theorem of Algebra	Use the FTOA and its corollary to write a polynomial equation of least degree with given roots	Warm Up: Problem requiring students to recall the fundamental theorem of algebra - Notes on writing polynomial functions given zeros Homework: pg. 127 #1-3, #11-13	MCC9-12.A.APR.3 MCC9-12.A.APR.2 MCC9-12.A.CED.3 MCC9-12.A.CED.1 MCC9-12.N.CN.9
	Friday, 10/2	4-2: Fundamental Theorem of Algebra	Use the FTOA and its corollary to write a polynomial equation of least degree with given roots	Warm Up: Review of 4-2 Intro - Discuss writing polynomial functions with complex zeros Homework: pg. 127 #20-22, 39-43 odd	MCC9-12.A.APR.3 MCC9-12.A.APR.2 MCC9-12.A.CED.3 MCC9-12.A.CED.1 MCC9-12.N.CN.9

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Week 10	Monday, 10/5	4-3: Investigating Graphs of Polynomial Functions	Use properties of end behavior to analyze, describe, and graph polynomial functions	Warm Up: Graph quadratics using transformations/factoring to find roots Key Vocabulary: end behavior, turning point, min/max, y-intercept, multiplicity - Notes/Examples of polynomial end behavior - Notes on min/ max, y-intercepts, and multiplicity Classwork: pg. 135 #2-9 Homework: pg. 135 #15-22, 32-35	MCC9-12.F.IF.4 MCC9-12.A.APR.3
	Tuesday, 10/6	4-3: Investigating Graphs of Polynomial Functions	Use properties of end behavior to analyze, describe, and graph polynomial functions	Warm Up: Fundamental Theorem of Algebra Problems - Examples on graphing polynomials using real zeros, x and y intercepts, x values from a table, end behavior Classwork/Homework: pg. 135 #10, 11, 23-26	MCC9-12.F.IF.4 MCC9-12.A.APR.3 MGSE9-12.F.IF.7 MGSE9-12.F.IF.7c
	Wednesday, 10/7 Performance Essay Social Studies	4-3: Investigating Graphs of Polynomial Functions	Use properties of end behavior to analyze, describe, and graph polynomial functions	Warm Up: Graphing polynomial functions Review Homework Key Vocabulary: Intervals of Increase/ Decrease - Examples on graphing polynomials using graphing calculators - Notes on finding interval of increase/ decrease Classwork/ Homework: Worksheet on graphing polynomial functions and identifying end behavior, min/ max, y-int, multiplicity, and intervals of increase and decrease	MCC9-12.F.IF.4 MCC9-12.A.APR.3 MGSE9-12.F.IF.7 MGSE9-12.F.IF.7c
	Thursday, 10/8	4.2-4.3 Quiz		**Quiz 4.2-4.3**	
	Friday, 10/9	**FACULTY AND STAFF PROFESSIONAL LEARNING DAY / STUDENT HOLIDAY**			

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Week 11	Monday, 10/12	**FALL HOLIDAY!**			
	Tuesday, 10/13	8-2: Inverses of Relations & Functions	Graph and recognize inverses of relations and functions	Warm Up: Warm Up from teacher's edition Key Vocabulary: inverse relation, inverse function - Notes on graphing inverse relations over the line y=x - 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

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	Wednesday, 10/14 PSAT ASVAB College Fair	8-2: Inverses of Relations & Functions	Graph and recognize inverses of relations and functions	Most classes will not meet today due to PSAT. Classes that do meet will work on problems from p. 269 involving finding/ graphing inverses.	MCC9-12.F.BF.4c MCC9-12.F.BF.4a MCC9-12.A.CED.2
	Thursday, 10/15 Early Release Professional Learning (1st, 2nd, 3rd, 5th)	8-2: Inverses of Relations & Functions	Graph and recognize inverses of relations and functions	Warm Up: Finding an inverse - Notes on graphing functions and their inverses Homework: p. 269 # 14-16, 26-28	MCC9-12.F.BF.4c MCC9-12.F.BF.4a MCC9-12.A.CED.2
	Friday, 10/16 Early Release Homecoming (7th, 6th, 4th, 5th)	8-2: Inverses of Relations & Functions	Graph and recognize inverses of relations and functions	Warm Up: Finding an inverse - Notes on graphing functions and their inverses Homework: p. 269 # 14-16, 26-28	MCC9-12.F.BF.4c MCC9-12.F.BF.4a MCC9-12.A.CED.2

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Week 12	Monday, 10/19	8-2: Inverses of Relations & Functions	Graph and recognize inverses of relations and functions	Warm Up: Finding an inverse Students will complete problems assigned from the student workbook from section 8-2	MCC9-12.F.BF.4c MCC9-12.F.BF.4a MCC9-12.A.CED.2
	Tuesday, 10/20	4.2-4.3 & 8.2 Review	Students will review concepts from 4.2, 4.3, & 8.2	Test Review-Group Activity	MCC9-12.A.APR.3 MCC9-12.A.APR.2 MCC9-12.A.CED.3 MCC9-12.A.CED.1 MCC9-12.N.CN.9 MCC9-12.F.IF.4 MGSE9-12.F.IF.7 MGSE9-12.F.IF.7c MCC9-12.F.BF.4c MCC9-12.F.BF.4a MCC9-12.A.CED.2
	Wednesday, 10/21	4.2, 4.3, 8.2 Test	Assessment	**Test (4.2, 4.3, 8.2)**	MCC9-12.A.APR.3 MCC9-12.A.APR.2 MCC9-12.A.CED.3 MCC9-12.A.CED.1 MCC9-12.N.CN.9 MCC9-12.F.IF.4 MGSE9-12.F.IF.7 MGSE9-12.F.IF.7c MCC9-12.F.BF.4c MCC9-12.F.BF.4a MCC9-12.A.CED.2
	Thursday, 10/22	6-1: Variation Functions	Solve problems involving direct, inverse, joint, and combined variation	Warm Up: Use warmup found on teacher PowerPoint CD Key Vocabulary: constant of variation, direct, joint, inverse, combined variation - Notes on writing and graphing direct variation - Inverse variation task as a class - Notes on writing and graphing inverse variation Homework: pg. 183-185 (#5-8,17-19, 24-30)	MCC.MP.1 MCC9-12.A.CED.2 MCC9-12.A.CED.3 MCC9-12.FLE.2

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	Friday, 10/23	6-1: Variation Functions	Solve problems involving direct, inverse, joint, and combined variation	Warm Up: pg. 222 #1-2 Key Vocabulary: constant of variation, direct, joint, inverse, combined variation - Review homework - Notes on joint and combined variation - Mixed variation practice in collaborative groups - Summary: how do we identify the type of variation from a list of ordered pairs? Homework: pg. 184-185 (32-26, 40-41, 45-47)	MCC.MP.1 MCC9-12.A.CED.3

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Week 13	Monday, 10/26	6-2: Multiplying & Dividing Rational Expressions	Simplify rational expressions Multiply and divide rational expressions	Warm Up: factoring review questions Key Vocabulary: rational expression - Review homework - Factoring trinomials race - Notes on simplifying rational expressions (varied difficulty of factoring involved) - Notes on multiplying rational expressions - Summary: Discussion on how to divide fractions Homework: pg. 190-192 (18-27, 36, 37, 39)	MCC9-12.A.APR.6 MCC9-12.A.APR.7(+)
	Tuesday, 10/27	6-2: Multiplying & Dividing Rational Expressions	Simplify rational expressions Multiply and divide rational expressions	Warm Up: Use warmup on teacher PowerPoint CD Key Vocabulary: rational expression - Review homework - Students independently work on higher level dividing problems - Notes on solving simple rational equations - Summary: discussion on adding and subtracting basic fraction (stress common denominator) Homework: pg. 190-192 (28-35, 38, 40-42)	MCC9-12.A.APR.7(+) MCC9-12.A.REI.2
	Wednesday, 10/28 Performance Essay Science	6-2: Multiplying & Dividing Rational Expressions	Simplify rational expressions Multiply and divide rational expressions	Buffer Day to use to extend rational expression exercises. Based on student/class needs. Use student workbook to supplement	MCC9-12.A.APR.7(+) MCC9-12.A.REI.2
	Thursday, 10/29	6.1-6.2 Review	Students will review concepts from 6.1 and 6.2.	Test Review-Group Activity	MCC.MP.1 MCC9-12.A.CED.2 MCC9-12.A.CED.3 MCC9-12.FLE.2 MCC9-12.A.APR.6 MCC9-12.A.APR.7(+) MCC9-12.A.REI.2
	Friday, 10/30	6.1-6.2 Test	Assessment	**6.1 & 6.2 Test**	MCC.MP.1 MCC9-12.A.CED.2 MCC9-12.A.CED.3

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					MCC9-12.FLE.2 MCC9-12.A.APR.6 MCC9-12.A.APR.7(+) MCC9-12.A.REI.2

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Week 14 Benchmark Week #2	Monday, 11/2	6-3: Adding & Subtracting Rational Expressions	Add and subtract rational expressions Simplify complex fractions	Warm Up: adding and subtracting fractions with unlike denominators Key Vocabulary: complex fraction - Review homework - Students are given a rational add/subtract problem with like denominators to assess knowledge - Notes on finding least common multiple of polynomials - Skill check on LCM - Go through several examples of adding/subtracting with different denominators Homework: pg. 198-200 (17-27)	MCC9-12.A.APR.7+
	Tuesday, 11/3	6-3: Adding & Subtracting Rational Expressions	Add and subtract rational expressions Simplify complex fractions	Warm Up: pg. 198 #2-12 even Key Vocabulary: complex fraction - Review homework - Video on complex fractions - Complex fractions station activity - Summary: ticket out the door: one subtraction, one complex fraction problem Homework: pg. 198-200 (28-31, 39-41, 44)	MCC9-12.A.APR.7+
	Wednesday, 11/4 SCIENCE	6-3: Adding & Subtracting Rational Expressions	Add and subtract rational expressions Simplify complex fractions	Buffer Day to use to extend rational expression exercises. Based on student/class needs. Use student workbook to supplement	MCC9-12.A.APR.7+
	Thursday, 11/5 SOCIAL STUDIES	Benchmark Review		Review for Benchmark – Focus on Module 3 and complex numbers	
	Friday, 11/6 ELECTIVES	Benchmark Review		Review for Benchmark – Focus on Module 4	

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Week 15 Benchmark Week #2	Monday, 11/9 ENGLISH	Benchmark Review		Review for Benchmark – Focus on 8.2 and 6.1-6.2	
	Tuesday, 11/10 MATH	Benchmark		**BENCHMARK #2**	
	Wednesday, 11/11	6-5: Solving Rational Equations & Inequalities	Solve rational equations and inequalities	Warm Up: Use warmup on teacher PowerPoint CD Key Vocabulary: rational equation, extraneous solution, rational inequality - Review homework - Notes on solving rational equations by multiplying the LCD (stress checking for extraneous solutions) - Partner work on real world applications (using ex. 3 and 4 in section, they complete the check it out problems) Homework: pg. 219-221 (19-28 evens, 38-43)	MCC9-12.A.REI.2 MCC9-12.A.CED.3 MCC9-12.A.CED.1
	Thursday, 11/12	6-5: Solving Rational Equations & Inequalities	Solve rational equations and inequalities	Warm Up: Describe how the solutions to an equation and inequality differ. Key Vocabulary: rational equation, extraneous solution, rational inequality - Review homework - Notes on solving rational inequalities algebraically- emphasize the difference between positive and negative LCD values - Independent practice on rational inequalities Homework: pg. 219-221 (33-36, 44-46, 60-61)	MCC9-12.A.REI.11 MCC9-12.A.REI.2
	Friday, 11/13	6-5: Solving Rational Equations & Inequalities	Solve rational equations and inequalities	Warm Up: Review solving inequalities Review Homework Classwork: Worksheet on solving rational equations and inequalities	MCC9-12.A.REI.2 MCC9-12.A.CED.3 MCC9-12.A.CED.1 MCC9-12.A.REI.11 MCC9-12.A.REI.2

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COURSE: Advanced Algebra	**SEMESTER: Fall 2015**
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WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (CCGPS, GPS, AP)
Week 16	Monday, 11/16	6-3 & 6-5 Review	Students will review concepts from 6-3 and 6-5.	Test Review-Group Activity	
	Tuesday, 11/17	6-3 & 6-5 Test	Assessment	**6-3 & 6-5 Test**	
	Wednesday, 11/18 Performance Essay Electives	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
	Thursday, 11/19	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(+)
	Friday, 11/20	14-1 Quiz		**Quiz over 14-1**	MCC9-12.F.BF.1b MCC9-12.F.BC.1c(+)
THANKSGIVING BREAK! 11/23 → 11/27					

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WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (CCGPS, GPS, AP)
Week 17	Monday, 11/30	14-1: Operations With Functions	Add, subtract, multiply and divide functions Write and evaluate composite functions	Warm Up: Adding and subtracting functions Classwork: Students will work on a worksheet to review concepts from 14.1 that we covered before the break. We will use problems most missed from the quiz.	MCC9-12.F.BF.1b MCC9-12.F.BC.1c(+)
	Tuesday, 12/1	13-1: Transforming Polynomial Functions	Transform polynomial functions	Warm Up: Review of transformations of 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 #1-8	MCC9-12.F.BF.3 MCC9-12.F.BF.1
	Wednesday, 12/2	13-1: Transforming Polynomial Functions	Transform polynomial functions	Warm Up: Warm up from teacher's edition Review Homework - Examples on combining transformations of functions Classwork/ Homework: p. 407 #9-12, Worksheet on transformations	MCC9-12.F.BF.3 MCC9-12.F.BF.1
	Thursday, 12/3	13-3: Transforming Functions	Transform functions Recognize transformations of functions	Warm Up: Use warm up on PowerPoint CD for section 13-3 - Notes on identifying the intercepts of multiple functions Homework: pg. 426 #5-6, 17-18	MCC9-12.F.BF.3
	Friday, 12/4	13-3: Transforming Functions	Transform functions	Warm Up: Finding intercepts of transformed functions Classwork/ Homework: p. 426 #3-4, 11-16, Worksheet on finding x and y intercepts and transforming functions	MCC9-12.F.BF.3

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			Recognize transformations of functions		

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WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (CCGPS, GPS, AP)
Week 18	Monday, 12/7	13.1 & 13.3 Review	Students will review concepts from 13.1 and 13.3.	Students will work in groups to review transformations of functions and finding x and y intercepts.	MCC9-12.F.BF.3 MCC9-12.F.BF.1
	Tuesday, 12/8	14.1, 13.1, 13.3 Review	Students will review concepts from 14.1, 13.1, and 13.3.	Test Review- Group Activity	MCC9-12.F.BF.1b MCC9-12.F.BC.1c(+) MCC9-12.F.BF.3 MCC9-12.F.BF.1
	Wednesday, 12/9	14.1, 13.1, 13.3 Test	Assessment	**14.1, 13.1, 13.3 Test**	MCC9-12.F.BF.1b MCC9-12.F.BC.1c(+) MCC9-12.F.BF.3 MCC9-12.F.BF.1
	Thursday, 12/10	Exam Review		Exam Review – TBD	
	Friday, 12/11	Exam Review		Exam Review – TBD	

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WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (CCGPS, GPS, AP)
Week 19 Benchmark Week #3	Monday, 12/14	Exam Review		Exam Review – TBD	
	Tuesday, 12/15	**Semester Exams (Benchmark #3) – 7th Period**			
	Wednesday, 12/16	**Semester Exams (Benchmark #3) – 1st & 2nd Periods**			
	Thursday, 12/17	**Semester Exams (Benchmark #3) – 3rd & 4th Periods**			
	Friday, 12/18	**Semester Exams (Benchmark #3) – 5th & 6th Periods**			

End 1st Semester

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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				
	Wednesday, 1/6				
	Thursday, 1/7				
	Friday, 1/8				

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WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (CCGPS, GPS, AP)
Week 2	Monday, 1/11				
	Tuesday, 1/12				
	Wednesday, 1/13				
	Thursday, 1/14				
	Friday, 1/15				

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WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (CCGPS, GPS, AP)
Week 3	Monday, 1/18	**MLK HOLIDAY**			
	Tuesday, 1/19				
	Wednesday, 1/20				
	Thursday, 1/21				
	Friday, 1/22				

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WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (CCGPS, GPS, AP)
Week 4	Monday, 1/25				
	Tuesday, 1/26				
	Wednesday, 1/27 Performance Essay English				
	Thursday, 1/28				
	Friday, 1/29				

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WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (CCGPS, GPS, AP)
Week 5	Monday, 2/1				
	Tuesday, 2/2				
	Wednesday, 2/3				
	Thursday, 2/4				
	Friday, 2/5				

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WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (CCGPS, GPS, AP)
Week 6 Benchmark Week #1	Monday, 2/8 ENGLISH				
	Tuesday, 2/9 MATH				
	Wednesday, 2/10 ELECTIVES				
	Thursday, 2/11 SCIENCE				
	Friday, 2/12 SOCIAL STUDIES				

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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				
	Tuesday, 2/23				
	Wednesday, 2/24 Performance Essay Math				
	Thursday, 2/25				
	Friday, 2/26				

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WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (CCGPS, GPS, AP)
Week 9	Monday, 2/29				
	Tuesday, 3/1				
	Wednesday, 3/2 Performance Essay Social Studies				
	Thursday, 3/3				
	Friday, 3/4				

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WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (CCGPS, GPS, AP)
Week 10	Monday, 3/7				
	Tuesday, 3/8				
	Wednesday, 3/9				
	Thursday, 3/10				
	Friday, 3/11				

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WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (CCGPS, GPS, AP)
Week 11	Monday, 3/14	FACULTY AND STAFF PROFESSIONAL LEARNING DAY / STUDENT HOLIDAY			
	Tuesday, 3/15				
	Wednesday, 3/16 Performance Essay Science				
	Thursday, 3/17 Early Release Professional Learning (1^{st}, 2^{nd}, 3^{rd}, 5^{th})				
	Friday, 3/18 Early Release Professional Learning (7^{th}, 6^{th}, 4^{th}, 5^{th})				

Buford High School CURRICULUM CALENDAR 2015-2016

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WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (CCGPS, GPS, AP)
Week 12	Monday, 3/21				
	Tuesday, 3/22				
	Wednesday, 3/23				
	Thursday, 3/24				
	Friday, 3/25				

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WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (CCGPS, GPS, AP)
Week 13	Monday, 3/28				
	Tuesday, 3/29				
	Wednesday, 3/30 Performance Essay Electives				
	Thursday, 3/31				
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				
	Tuesday, 4/12				
	Wednesday, 4/13 SCIENCE				
	Thursday, 4/14 SOCIAL STUDIES				
	Friday, 4/15 ELECTIVES				

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WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (CCGPS, GPS, AP)
Week 15 Benchmark Week #2	Monday, 4/18 ENGLISH				
	Tuesday, 4/19 MATH				
	Wednesday, 4/20				
	Thursday, 4/21				
	Friday, 4/22				

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WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (CCGPS, GPS, AP)
Week 16	Monday, 4/25				
	Tuesday, 4/26				
	Wednesday, 4/27				
	Thursday, 4/28				
	Friday, 4/29				

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WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (CCGPS, GPS, AP)
Week 17	Monday, 5/2				
	Tuesday, 5/3				
	Wednesday, 5/4				
	Thursday, 5/5				
	Friday, 5/6				
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.	

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WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (CCGPS, GPS, AP)
Week 18	Monday, 5/9				
	Tuesday, 5/10				
	Wednesday, 5/11				
	Thursday, 5/12				
	Friday, 5/13				
AP Exams Monday, May 9 – AP Biology and AP Music Theory 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				Milestones To be determined.	

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WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (CCGPS, GPS, AP)
Week 19	Monday, 5/16				
	Tuesday, 5/17				
	Wednesday, 5/18				
	Thursday, 5/19				
	Friday, 5/20				

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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)**			