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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 1 | Thursday, 8/4 | Syllabus | First Day of School | Intro to class  Syllabus  Rules PowerPoint provided by BHS covering agenda pages |  |
| Friday, 8/5 | Pre-Test | Pre-test | Begin class with algebraic warm up problems on solving equations  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  Students will complete a multi-step equation maze after pre-test in order to practice solving basic algebraic equations |  |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 2 | Monday, 8/8 | Complex Numbers | 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 * 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  HW: 16-32 even on both Set A and Set B | MGSE9-12.N.CN.1 |
| Tuesday, 8/9 | Complex Numbers | Operations with Complex Numbers | * Warm up of types of problems from previous lesson (simplifying radicals with the use of “I”) * Review of Homework * Notes on adding, subtracting, & multiplying complex numbers   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 |
| Wednesday, 8/10 | Complex Numbers | Dividing with Complex Numbers | * Warm up on operations of complex numbers * Review of Homework * Powers of “i” – be sure to show how to break down only using i2 and using rules of 4 * Notes on using conjugates to divide complex numbers   Homework pg. 14 #4-38 even from Math II book pages  Also include 3 problems involving powers of i | MGSE9-12.N.CN.1  MGSE9-12.N.CN.2  MGSE9-12.N.CN.3 |
| Thursday, 8/11 | Complex Numbers | Review | * Warm up on powers of “i” and dividing complex numbers * Students will work in groups to review concepts of complex numbers, including operations with complex numbers, complex conjugates, powers of i, and simplifying radicals | MGSE9-12.N.CN.1  MGSE9-12.N.CN.2  MGSE9-12.N.CN.3 |
| Friday, 8/12 | Complex Numbers | Assessment | Warm Up: Powers of I and operations with complex numbers  Review any homework questions  **QUIZ – COMPLEX NUMBERS** | MGSE9-12.N.CN.1  MGSE9-12.N.CN.2  MGSE9-12.N.CN.3 |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 3 | Monday, 8/15 | 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 (only do problems 2-13 today)  Go over quiz at the beginning of class to clarify misconceptions | MGSE9-12.A.APR.1 |
| Tuesday, 8/16 | 3-2:Multiplying Polynomials | Multiply polynomials | Warm Up: Add/subtract polynomials (also put in sf, name, and list LC and degree)   * Notes/Examples of multiplying polynomials * Binomial x binomial, binomial x trinomial, & trinomial x trinomial   Homework: pg. 88 #1-8, 10-13, 19-25 odd (only do 1-8) | MGSE9-12.A.APR.1  MGSE9-12.A.CED.1 |
| Wednesday, 8/17 | 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 (p. 88 31-34) | MGSE9-12.A.APR.5(+) |
| Thursday, 8/18 | 3-1-3-3 Quiz | Assessment | Warm Up: Binomial expansion problem  Quiz on 3-1-3-3  Start notes on Long Division after quiz. Students will use guided notes to try problems on their own. | MGSE9-12.A.APR.1  MGSE9-12.A.CED.1  MGSE9-12.A.APR.5(+) |
| Friday, 8/19 | 3-4: Dividing Polynomials | Use long division to divide polynomials | Warm Up: Review of Complex Numbers   * Notes/examples on using long division to divide polynomials   Classwork: pg. 102 #2-4, 13-18  Go over long division notes from yesterday and do problems together. | MGSE9-12.A.APR.6 |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 4 | Monday, 8/22 | Complex #s and 3.1-3.4 Review | Students will review complex numbers and concepts from 3.1-3.4 | | Warm Up: Long division and simplifying radicals with the use of i  Do more examples on long division prior to test review  Students will work in groups to review complex numbers, binomial theorem, and adding, subtracting, and multiplying polynomials, long division | MGSE9-12.A.APR.1  MGSE9-12.A.CED.1  MGSE9-12.A.APR.5(+)  MGSE9-12.A.APR.6 |
| Tuesday, 8/23 | Complex #’s and 3.1-3.4 Test | Assessment | | **Complex #’s and 3.1-3.4 Test** | MGSE9-12.A.APR.1  MGSE9-12.A.CED.1  MGSE9-12.A.APR.5(+)  MGSE9-12.A.APR.6 |
| Wednesday, 8/24 | 3-4: Dividing Polynomials | Use synthetic division to divide polynomials | | Warm Up: Writing assessment on simplifying polynomials  Key Vocabulary: Synthetic division   * Notes/Examples on synthetic division * Examples of using synthetic substitution to solve polynomials for a given value (remainder theorem)   Summary: Solve the same division problem using both long and synthetic division  Homework: pg. 324 #5-11, 19-27 odd, 39-48 all | MGSE.MP.8  MGSE9-12.A.APR.2 |
| Thursday, 8/25 | 3-4: Dividing Polynomials  3-5: Factoring | Use synthetic division to divide polynomials  Factor 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  Key Vocabulary: Greatest Common Factor  Begin reviewing greatest common factor  Start factoring today-both GCF and trinomials with a=1 | MGSE.MP.8  MGSE9-12.A.APR.2  MGSE9-12.A.SSE.2 |
| Friday, 8/26 | 3-5: Factoring | | Factor polynomials | Warm Up: Factoring problems (GCF)  Key Vocabulary: Difference of Two Squares   * Notes/ examples of factoring trinomials (a=1) * Notes/ examples of factoring using difference of two squares * Notes/ examples of factoring by grouping   Homework: Factoring worksheet  Include factoring problems that include GCF with other methods | MGSE9-12.A.SSE.2 |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 5 | Monday, 8/29 | 3-5: Factoring | | Factoring polynomials | Warm Up: Factoring problems (trinomials and binomials)  Worksheet: Students will work together to practice factoring methods learned Friday  Finish notes on grouping for classes that did not get to it on Friday | MGSE9-12.A.SSE.2 |
| Tuesday, 8/30 | 3-5: Factoring | | Factoring polynomials | Warm Up: Factoring problems   * Notes/examples on factoring trinomials (a>1)   Homework: Worksheet on factoring trinomials | MGSE9-12.A.SSE.2 |
| Wednesday, 8/31 | 3-5: Factoring | | Factoring polynomials | Worksheet: Students will do a worksheet that involves a mix of all factoring problems including problems that involve multiple steps.  Students will start factoring carousel today | MGSE9-12.A.SSE.2 |
| Thursday, 9/1 | 3.4-3.5 Review | | Students will review concepts from 3-4 and 3-5. | Students will do a carousel activity that involves a mix of factoring problems requiring students to know when and how to apply the different methods.  Students will receive test review.  Students will finish carousel review and then begin test review | MGSE.MP.8  MGSE9-12.A.APR.2  MGSE9-12.A.SSE.2 |
| Friday, 9/2  Early Release  (1st, 2nd, 3rd, 5th) | 3.4-3.5 Review | | Students will review concepts from 3-4 and 3-5. | Worksheet: Students will do a worksheet that involves a mix of factoring problems and synthetic division problems requiring students to know when and how to apply the different methods. | MGSE.MP.8  MGSE9-12.A.APR.2  MGSE9-12.A.SSE.2 |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 6 | Monday, 9/5 | **LABOR DAY HOLIDAY** | | | |
| Tuesday, 9/6 | 3.4-3.5 Test | Assessment | **3.4-3.5 Test** | MGSE.MP.8  MGSE9-12.A.APR.2  MGSE9-12.A.SSE.2 |
| Wednesday, 9/7  Essay –  English | 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  (Writing assessment on factoring by grouping)   * 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 | MGSE9-12.A.APR.3  MGSE9-12.A.CED.3 |
| Thursday, 9/8 | 4-1: Finding Real Roots of Polynomial Equations | Find real roots of polynomial equations using factoring and the quadratic formula | Warm Up: Review solving polynomials by factoring  Key Vocabulary: Quadratic Formula   * Continue practicing solving by factoring * Review how to solve polynomials using the quadratic formula (focus on real roots today)-do not cover quadratic formula until Tuesday, continue solving by factoring today   Homework: Worksheet on finding real roots of polynomial equations | MGSE9-12.A.APR.3  MGSE9-12.A.CED.3 |
| Friday, 9/9  Benchmark #1 –  Electives | 4-1: Finding Real Roots of Polynomial Equations | Identify the multiplicity of roots  Use the rational 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  Worksheet on solving by synthetic division and factoring | MGSE9-12.A.APR.3  MGSE9-12.A.CED.3 |

**\*NO OTHER MAJOR ASSESSMENTS ON WEDNESDAY, SEPTEMBER 7.\***

**\*NO OTHER MAJOR ASSESSMENTS FROM THURSDAY, SEPTEMBER 8 – FRIDAY, SEPTEMBER 16 (INCLUSIVE).\***

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 7 | Monday, 9/12  Benchmark #1 –  Social Studies | 4-1: Finding Real Roots of Polynomial Equations | Identify the multiplicity of roots  Use the rational root theorem to solve polynomial equations | Warm Up: Solving polynomial equations with synthetic division and factoring   * Mixed Practice: solving using factoring, synthetic division, and quadratic formula   Homework: Complete worksheet started in class  Finish worksheet from Friday, will cover quadratic formula tomorrow | MGSE9-12.A.APR.3  MGSE9-12.A.CED.3 |
| Tuesday, 9/13  Benchmark #1 –  Science | 4-1: Finding Real Roots of Polynomial Equations | Identify the multiplicity of roots  Use the rational root theorem to solve polynomial equations | Warm Up: Use the rational root theorem and synthetic division to solve polynomial equations  Review Homework  Teach solving by synthetic division and quadratic formula (students recall quadratic formula from last year so they picked up on this quickly)  Group Work: Students will work together on an activity to practice finding all real roots of a polynomial equation (this will be turned in for a quiz grade) | MGSE9-12.A.APR.3  MGSE9-12.A.CED.3 |
| Wednesday, 9/14 | Benchmark Review | Benchmark Review  Complex Numbers and Module 3 | Group Activities to Review for Benchmark #1 |  |
| Thursday, 9/15  Benchmark #1 –  English | Benchmark Review | Benchmark Review  Complex Numbers and Module 3 | Group Activities to Review for Benchmark #1 |  |
| Friday, 9/16  Benchmark #1 –  Math | Benchmark |  | **FALL BENCHMARK #1** |  |

**\*NO OTHER MAJOR ASSESSMENTS FROM THURSDAY, SEPTEMBER 8 – FRIDAY, SEPTEMBER 16 (INCLUSIVE).\***

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 8 | Monday, 9/19 | 4-1 & 4-2: Finding All Roots of Polynomial Equations | Identify all of the roots of a polynomial equation | | Warm Up: Use the rational root theorem and synthetic division to solve polynomial equations   * Notes on solving using synthetic division and the quadratic formula with complex solutions   Homework: p. 127 #24-35  Already covered this last week, do a carousel review of sections 4.1-4.2 Today | MGSE9-12.A.APR.3  MGSE9-12.A.APR.2  MGSE9-12.A.CED.3  MGSE9-12.N.CN.9 |
| Tuesday, 9/20 | 4.1-4.2 Review | Students will review concepts from 4-1 & 4-2 | | Test Review-Group Activity  Students will finish carousel review and then complete a test review sheet and finish this for homework | MGSE9-12.A.APR.3  MGSE9-12.A.APR.2  MGSE9-12.A.CED.3  MGSE9-12.N.CN.9 |
| Wednesday, 9/21 | 4.1-4.2 Test | Assessment | | **4.1-4.2 Test** | MGSE9-12.A.APR.3  MGSE9-12.A.APR.2  MGSE9-12.A.CED.3  MGSE9-12.N.CN.9 |
| Thursday, 9/22 | 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: Writing assessment on finding all roots of a polynomial equation   * Notes on writing polynomial functions given zeros (also include functions with complex roots)   Homework: pg. 127 #1-3, #11-13 | MGSE9-12.A.APR.3  MGSE9-12.A.APR.2  MGSE9-12.A.CED.3  MGSE9-12.A.CED.1  MGSE9-12.N.CN.9 |
| Friday, 9/23  Early Release –  Homecoming  (7th, 6th, 4th, 5th) | 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  Go over benchmark with classes that meet today (covered writing functions with complex zeros yesterday) | MGSE9-12.A.APR.3  MGSE9-12.A.APR.2  MGSE9-12.A.CED.3  MGSE9-12.A.CED.1  MGSE9-12.N.CN.9 |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 9 | Monday, 9/26 | 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 Writing the equation of polynomials given the roots (1 with a fraction and multiplicity, 1 with complex roots)  Key Vocabulary: turning point, min/max, y-intercept, multiplicity   * Notes on min/ max, y-intercepts, and multiplicity * Notes on graphing polynomial functions using roots, min/max, and y-int   Classwork: pg. 135 #2-9  Start section 4.3 today, but only cover end behavior (p. 135 2-5, 15-18) | MGSE9-12.F.IF.4  MGSE9-12.A.APR.3 |
| Tuesday, 9/27 | 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 Determine the end behavior of two polynomials   * Continue Examples on graphing polynomials using real zeros, x and y intercepts, x values from a table, end behavior * Students will practice graphing on their own   Classwork/Homework: pg. 135 #10, 11, 23-26  Continue section 4.3 today-focus on graphing polynomials given the roots. Students will plot the roots first, determine the end behavior, local max, local min, and finish sketching the graph | MGSE9-12.F.IF.4  MGSE9-12.A.APR.3 |
| Wednesday, 9/28  Essay –  Social Studies | 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 Graphing a polynomial function given the roots   * Notes on end behavior * Notes on increasing/decreasing   Homework: Worksheet on end behavior  Students will work on a graphing practice worksheet | MGSE9-12.F.IF.4  MGSE9-12.A.APR.3 |
| Thursday, 9/29 | 4-3: Investigating Graphs of Polynomial Functions | Use properties of end behavior to analyze, describe, and graph polynomial functions | Warm Up: End Behavior problems   * Review Homework   Classwork: Students will practice graphing polynomial functions and describing their end behavior, intervals of increase/decrease, intercepts, and roots. Students will also review writing functions. | MGSE9-12.F.IF.4  MGSE9-12.A.APR.3 |
| Friday, 9/30 | 4.2-4.3 Quiz | Assessment | **Quiz 4.2-4.3**  **Quiz will cover writing polynomial functions and graphing polynomial functions** | MGSE9-12.F.IF.4  MGSE9-12.A.APR.3  MGSE9-12.A.APR.3  MGSE9-12.A.APR.2  MGSE9-12.A.CED.3  MGSE9-12.A.CED.1  MGSE9-12.N.CN.9 |

**\*NO OTHER MAJOR ASSESSMENTS ON WEDNESDAY, SEPTEMBER 28.**\*

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 10 | Monday, 10/3 | 4-2: Finding All Roots of Polynomial Equations | Identify all the roots of a polynomial equation | Warm Up: Problems on writing functions given roots. (also include a warm up problem involving graphing a polynomial function)  Classwork: Students will complete a worksheet on finding roots using all methods learned. Students must determine how to find the roots on their own. | MGSE9-12.A.APR.3  MGSE9-12.A.APR.2  MGSE9-12.A.CED.3  MGSE9-12.N.CN.9 |
| Tuesday, 10/4 | 4-3: Investigating Graphs of Polynomial Functions | Use properties of end behavior to analyze, describe, and graph polynomial functions using a graphing calculator | Warm Up: Students will find roots of a polynomial with their choice of method (Warm-up: Finding the roots by looking at a picture of a graph)   * Notes on using the graphing calculator to find roots of a polynomial function   Classwork: Worksheet on finding roots using multiple methods including the graphing calculator | MGSE9-12.A.APR.3  MGSE9-12.A.APR.2  MGSE9-12.A.CED.3  MGSE9-12.N.CN.9 |
| Wednesday, 10/5  Essay –  Science | 4.2-4.3 Review | Students will review concepts from 4.2- 4.3 | Test Review-Group Activity | MGSE9-12.A.APR.3  MGSE9-12.A.APR.2  MGSE9-12.A.CED.3  MGSE9-12.A.CED.1  MGSE-12.N.CN.9  MGSE9-12.F.IF.4  MGSE9-12.F.IF.7  MGSE9-12.F.IF.7c |
| Thursday, 10/6 | 4.2-4.3 Test | Assessment | **Test (4.2, 4.3)**  Test will only cover 4.2-4.3, students will be expected to write polynomial equations given roots, find all the roots of polynomial equations with whichever method they choose (factoring, synthetic division, quadratic formula, graphing calculator), and graph polynomial functions given the roots (find the local max/min/end behavior\_ | MGSE9-12.A.APR.3  MGSE9-12.A.APR.2  MGSE9-12.A.CED.3  MGSE9-12.A.CED.1  MGSE-12.N.CN.9  MGSE9-12.F.IF.4  MGSE9-12.F.IF.7  MGSE9-12.F.IF.7c |
| Friday, 10/7 | **FACULTY AND STAFF PROFESSIONAL LEARNING DAY / STUDENT HOLIDAY** | | | |

**\*NO OTHER MAJOR ASSESSMENTS ON WEDNESDAY, OCTOBER 5.**\*

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 11 | Monday, 10/10 | **FALL HOLIDAY!** | | | |
| Tuesday, 10/11 | 6-1: Variation Functions | Solve problems involving direct, inverse, joint, and combined variation | Warm Up: Written assessment requiring students to graph a polynomial function and describe the graph  Key Vocabulary: constant of variation, direct, joint, inverse, combined variation   * Notes on writing direct variation, inverse variation, joint variation, and combined variation * Notes on solving variation word problems   Homework: pg. 183-185 (#5-8,17-19, 24-30) | MGSE.MP.1  MGSE9-12.A.CED.2  MGSE9-12.A.CED.3  MGSE9-12.FLE.2 |
| Wednesday, 10/12 | 6-1: Variation Functions | Solve problems involving direct, inverse, joint, and combined variation | Warm Up: pg. 222 #1-2 Write a function given the roots (most missed problem from last test)  Key Vocabulary: constant of variation, direct, joint, inverse, combined variation   * Review homework * Mixed variation practice in collaborative groups * Summary: how do we identify which type of variation equation to use in a problem?   Homework: pg. 184-185 (32-26, 40-41, 45-47) | MGSE.MP.1  MGSE9-12.A.CED.2  MGSE9-12.A.CED.3  MGSE9-12.FLE.2 |
| Thursday, 10/13  Early Release  Professional  Learning  (1st, 2nd, 3rd, 5th) | 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 undefined values * Summary: What makes a value undefined in a rational expression?   Homework: pg. 190-192 (18-27, 36, 37, 39) | MGSE9-12.A.APR.6  MGSE9-12.A.APR.7(+) |
| Friday, 10/14  Early Release  Homecoming  (7th, 6th, 4th, 5th) | 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 undefined values * Summary: What makes a value undefined in a rational expression?   Homework: pg. 190-192 (18-23) | MGSE9-12.A.APR.6  MGSE9-12.A.APR.7(+) |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 12 | Monday, 10/17 | 6-2: Multiplying & Dividing Rational Expressions | Simplify rational expressions  Multiply and divide rational expressions | Warm Up: Determine the undefined values of rational expressions  Classwork: Students will work in groups to complete an activity requiring simplifying rational expressions and finding undefined values  We will move onto multiplying rational expressions today. | MGSE9-12.A.APR.6  MGSE9-12.A.APR.7(+) |
| Tuesday, 10/18 | 6-2: Multiplying & Dividing Rational Expressions | Simplify rational expressions  Multiply and divide rational expressions | Warm Up: Simply rational expressions  Key Vocabulary: rational expression   * Notes on multiplying rational expressions * Make sure students know how to get the answer in simplest form   Homework: p. 190 (8-10, 24-27)  Today we will review variation, simplifying rational expressions, and multiplying rational expressions. Half-way through the class we will do a 6.1-6.2 Concept Check (counts as a 50 point quiz) | MGSE9-12.A.APR.6  MGSE9-12.A.APR.7(+) |
| Wednesday, 10/19  PSAT  ASVAB  College/Career Fair | 6-2: Multiplying & Dividing Rational Expressions | Simplify rational expressions  Multiply and divide rational expressions | Warm Up: Multiplying rational expressions  Key Vocabulary: rational expression  Review homework  Classwork: Students will complete a worksheet in groups on multiplying rational expressions | MGSE9-12.A.APR.6  MGSE9-12.A.APR.7(+) |
| Thursday, 10/20 | 6-2: Multiplying & Dividing Rational Expressions | Simplify rational expressions  Multiply and divide rational expressions | Warm Up: Dividing basic fractions  Key Vocabulary: rational expression   * Notes on dividing rational expressions   Homework: p. 190 (11-14, 28-31) | MGSE9-12.A.APR.6  MGSE9-12.A.APR.7(+) |
| Friday, 10/21 | 6.1-6.2 Review | Students will review concepts from 6.1 and 6.2. | Test Review-Group Activity | MGSE.MP.1  MGSE9-12.A.CED.2  MGSE9-12.A.CED.3  MGSE9-12.FLE.2  MGSE9-12.A.APR.6  MGSE9-12.A.APR.7(+)  MGSE9-12.A.REI.2 |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 13 | Monday, 10/24 | 6.1-6.2 Test | Assessment | **6.1 & 6.2 Test** | MGSE.MP.1  MGSE9-12.A.CED.2  MGSE9-12.A.CED.3  MGSE9-12.FLE.2  MGSE9-12.A.APR.6  MGSE9-12.A.APR.7(+)  MGSE9-12.A.REI.2 |
| Tuesday, 10/25 | 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   * 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 with different denominators   Homework: pg. 198-200 (17, 22-24) | MGSE9-12.A.APR.7(+) |
| Wednesday, 10/26  Essay –  Math | Performance Essay |  | **Math Performance Essay** |  |
| Thursday, 10/27 | 6-3: Adding & Subtracting Rational Expressions | Add and subtract rational expressions  Simplify complex fractions | Warm Up: Adding a basic rational expression with unlike denominators  Key Vocabulary: complex fraction   * Go through several examples of adding with different denominators (higher level problems- requires factoring denominator first)   Homework: Worksheet on adding rational expressions (We will do bookwork instead of a worksheet today) | MGSE9-12.A.APR.7(+) |
| Friday, 10/28  Benchmark #2 –  Electives | 6-3: Adding & Subtracting Rational Expressions | Add and subtract rational expressions  Simplify complex fractions | Warm Up: Adding a higher level rational expression  Key Vocabulary: complex fraction   * Notes on subtracting rational expressions (discuss difference between addition and subtraction/ distributing subtraction sign)   Homework: p. 198 (25-27)  (Worksheet on addition and subtraction after teaching subtraction) | MGSE9-12.A.APR.7(+) |

**\*NO OTHER MAJOR ASSESSMENTS ON WEDNESDAY, OCTOBER 26.\***

**\*NO OTHER MAJOR ASSESSMENTS FROM THURSDAY, OCTOBER 27 – FRIDAY, NOVEMBER 4 (INCLUSIVE).\***

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 14 | Monday, 10/31  Benchmark #2 –  Science | 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) | MGSE9-12.A.APR.7(+) |
| Tuesday, 11/1  Benchmark #2 –  Social Studies | Benchmark Review |  | Review for Benchmark – Focus on complex numbers and module 3 |  |
| Wednesday, 11/2 | Benchmark Review |  | Review for Benchmark – Focus on module 4 and 6 |  |
| Thursday, 11/3  Benchmark #2 –  Math | Benchmark |  | **BENCHMARK #2** |  |
| Friday, 11/4  Benchmark #2 –  English | 6-3: Adding & Subtracting Rational Expressions | Add and subtract rational expressions  Simplify complex fractions | Warm Up: Simplifying complex fractions  Classwork: Students will work on a carousel activity with a partner that involves adding and subtracting rational expressions.  (Students will work on a worksheet with partners today that involves adding and subtracting rational expressions as well as simplifying complex fractions. | MGSE9-12.A.APR.7(+) |

**\*NO OTHER MAJOR ASSESSMENTS FROM THURSDAY, OCTOBER 27 – FRIDAY, NOVEMBER 4 (INCLUSIVE).\***

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 15 | Monday, 11/7 | 6-3: Adding & Subtracting Rational Expressions | Add and subtract rational expressions  Simplify complex fractions | | Warm Up: Multiplying rational expressions (change to subtracting rational expressions)  Classwork: Students will complete a review worksheet on all concepts from 6-3. | MGSE9-12.A.APR.7(+) |
| Tuesday, 11/8 | 6-3 Quiz | Assessment | | 6-3 Quiz  Students will be allowed to use their notes on this quiz. | MGSE9-12.A.APR.7(+) |
| Wednesday, 11/9  Essay –  Electives | 6-5: Solving Rational Equations & Inequalities | Solve rational equations and inequalities | | Warm Up: Use warmup on teacher PowerPoint CD (Warm up will include 2 problems on simplifying complex fractions)  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)  Begin class by going over the 6.3 Quiz prior to starting solving rational equations | MGSE9-12.A.REI.2  MGSE9-12.A.CED.3  MGSE9-12.A.CED.1 |
| Thursday, 11/10 | 6-5: Solving Rational Equations & Inequalities | | Solve rational equations and inequalities | Warm Up: Solving rational equations  Classwork: Students will complete a worksheet in groups that practices solving rational equations. | MGSE9-12.A.REI.2  MGSE9-12.A.CED.3  MGSE9-12.A.CED.1 |
| Friday, 11/11 | 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)  Students struggled with rational equations. Move inequalities to Monday and continue practice on rational equations today. | MGSE9-12.A.REI.2  MGSE9-12.A.REI.11 |

**\*NO OTHER MAJOR ASSESSMENTS ON WEDNESDAY, NOVEMBER 9.\***

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 16 | Monday, 11/14 | 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  Go over inequalities prior to completing worksheet | MGSE9-12.A.REI.2  MGSE9-12.A.CED.3  MGSE9-12.A.CED.1  MGSE9-12.A.REI.11 |
| Tuesday, 11/15 | 6-3 & 6-5 Review | Students will review concepts from 6.3 and 6.5 | Students will complete a carousel activity on adding/subtracting rational expressions and solving rational equations | MGSE9-12.A.REI.2  MGSE9-12.A.CED.3  MGSE9-12.A.CED.1  MGSE9-12.A.REI.11  MGSE9-12.A.APR.7+ |
| Wednesday, 11/16 | 6-3 & 6-5 Review | Students will review concepts from 6.3 and 6.5 | Test Review-Group Activity | MGSE9-12.A.REI.2  MGSE9-12.A.CED.3  MGSE9-12.A.CED.1  MGSE9-12.A.REI.11  MGSE9-12.A.APR.7+ |
| Thursday, 11/17 | 6-3 & 6-5 Test | Assessment | **6-3 & 6-5 Test** | MGSE9-12.A.REI.2  MGSE9-12.A.CED.3  MGSE9-12.A.CED.1  MGSE9-12.A.REI.11  MGSE9-12.A.APR.7+ |
| Friday, 11/18 | 1.1: Mean, Median and Mode | Find measures of central tendency and variation for statistical data. Examine the effects of outliers. | Warm Up: Real life application of central tendency  Introduce vocabulary:   * Mean * Median * Mode   Single Day activity using measures of Central Tendency  Students will complete a task today that involves finding mean, median, mode, and box and whisker plots | MCC9-12.S.ID.2  MCC9-12.S.ID.3  MCC9-12.S.MD.2  MCC9-12.S.ID.1 |
| **THANKSGIVING BREAK!**  **11/21 🡪 11/25** | | | | | |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 17 | Monday, 11/28 | 1.1: Mean, Median and Mode | Find measures of central tendency and variation for statistical data. Examine the effects of outliers. | Warm Up: Review of Central Tendency  Key Vocab:   * Standard Deviation * Variance * Outlier   Introduce finding SD and V by hand and instruct on how to find it using a calculator  Classwork:  p. 11 #9-11, 20-22, 31-34  Finish the 1.1 task from before Thanksgiving break and go over as a class | MCC9-12.S.ID.2  MCC9-12.S.ID.3  MCC9-12.S.MD.2  MCC9-12.S.ID.1 |
| Tuesday, 11/29 | 1.1 Practice and Review | Students will review concepts from Chapter 1.1 | Reteach/Review key concepts from 1.1   * Finding SD and Variance * Using Measures of Central Tendency to describe data   Finish Section 1.1-Expected Value and Standard Deviation/Variance | MCC9-12.S.ID.2  MCC9-12.S.ID.3  MCC9-12.S.MD.2  MCC9-12.S.ID.1 |
| Wednesday, 11/30 | 1.1 Quiz  Introduce 1.2 Data Gathering | Assessment  Students will get familiar with vocabulary and concepts from 1.2 | Chapter 1.1 Quiz (Use this quiz as a practice worksheet-take for a grade)  Extra Time:  Introduce Bias vs. Unbias within data vocabulary.  Extra classwork if possible: p.19 #5 - 20 | MCC9-12.S.IC.1  MCC9-12.S.IC.4  MCC9-12.S.MD.7 |
| Thursday, 12/1 | 1.1 Outliers  1.2 Bias vs. Unbias | Understand the effect of outliers on a set of data  Explain how random samples can be used to make inferences about a population | Warm Up: Finding Outliers in a set of data and discussing the effect together  Vocab:   * Population * Census * Sample * Random sample * Biased sample * Statistic * Parameter   Classwork:  p. 19 #5 – 20, 27 - 31  Finish 1.1-outliers/ Cover 1.2 Notes (Bias/Unbias) | MCC9-12.S.IC.1  MCC9-12.S.IC.4  MCC9-12.S.MD.7  MCC9-12.S.ID.3 |
| Friday, 12/2 | 1.2 Proportions & 1.3 Experiments & Observational Studies | Explain how random samples can be used to make inferences about a population | Warm Up: Review yesterday’s vocabulary  Lesson: Using proportions to compare population sizes with sample sizes (also include notes on experimental and observational studies)  Classwork: p. 19 # 5 – 20, 27 – 31,  p. 27 #3 – 12, 14 - 18 | MCC9-12.S.IC.1  MCC9-12.S.IC.4  MCC9-12.S.MD.7  MCC9-12.S.ID.3  MCC9-12.S.IC.3 |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 18 | Monday, 12/5 | 1.1 – 1.3 Review | Review Concepts from 1.1 – 1.3 | Review Worksheet (Stations, Partners, Indy Work, etc.) | MCC9-12.S.ID.2  MCC9-12.S.ID.3  MCC9-12.S.MD.2  MCC9-12.S.ID.1  MCC9-12.S.IC.1  MCC9-12.S.IC.4  MCC9-12.S.MD.7  MCC9-12.S.ID.3 |
| Tuesday, 12/6 | Chapter 1 Test | Assessment | Chapter 1 Test | MCC9-12.S.ID.2  MCC9-12.S.ID.3  MCC9-12.S.MD.2  MCC9-12.S.ID.1  MCC9-12.S.IC.1  MCC9-12.S.IC.4  MCC9-12.S.MD.7  MCC9-12.S.ID.3 |
| Wednesday, 12/7 | Exam Review |  | Exam Review – TBD |  |
| Thursday, 12/8 | Exam Review |  | Exam Review – TBD |  |
| Friday, 12/9 | Exam Review |  | Exam Review – TBD |  |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(CCGPS, GPS, AP)** |
| Week 19 | Monday, 12/12 | Exam Review | |  | Exam Review – TBD |  |
| Tuesday, 12/13 | **Semester Exams (Benchmark #3) – 7th Period** | | | | |
| Wednesday, 12/14 | **Semester Exams (Benchmark #3) – 1st & 2nd Periods** | | | | |
| Thursday, 12/15 | **Semester Exams (Benchmark #3) – 3rd & 4th Periods** | | | | |
| Friday, 12/16 | **Semester Exams (Benchmark #3) – 5th & 6th Periods** | | | | |

**End 1st Semester**

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 1 | Tuesday, 1/3 | **FACULTY AND STAFF PROFESSIONAL LEARNING DAY / STUDENT HOLIDAY** | | | |
| Wednesday, 1/4 | Module 6 Review | Students will review objectives from Module from 1st semester | Warm-Up: Subtracting Rational Expressions  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+ |
| Thursday, 1/5 | 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 * Talk about asymptotes and plotting them on the graph   Homework: pg. 211 #2-7 | MCC9-12.F.BF.3  MCC9-12.F.IF.5  MC9-12.F.IF.7d(+) |
| Friday, 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   * Continue examples on the parent graph of rational functions and their transformations * Notes on 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(+) |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 2 | Monday, 1/9 | 6-4: Rational Functions | Graph Rational Functions  Transform rational functions by changing parameters | Warm Up: graphing basic rational functions  Key Vocabulary: rational function, vertical asymptote, horizontal asymptote, zeros, slant asymptote   * 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 (listing characteristics only) | MCC9-12.F.BF.3  MCC9-12.F.IF.5  MC9-12.F.IF.7d(+) |
| Tuesday, 1/10 | 6-4: Rational Functions | Graph Rational Functions  Transform rational functions by changing parameters | Warm Up: listing characteristics of rational functions  Key Vocabulary: rational function, vertical asymptote, horizontal asymptotes, zeros, slant asymptote   * Notes on graphing rational functions on the graphing calculator and identifying characteristics on the graph   Homework: add graphs to last night’s hw problems | MCC9-12.F.BF.3  MCC9-12.F.IF.5  MC9-12.F.IF.7d(+) |
| Wednesday, 1/11 | 6-4: Rational Functions | Graph Rational Functions  Transform rational functions by changing parameters | Warm Up: give a rational function problem to identify its characteristics  -Students will work with partners to review graphing rational functions and identifying characteristics | MCC9-12.F.BF.3  MCC9-12.F.IF.5  MC9-12.F.IF.7d(+) |
| Thursday, 1/12 | 6-4: Rational Functions | Assessments | 6.4 Quiz | MCC9-12.F.BF.3  MCC9-12.F.IF.5  MC9-12.F.IF.7d(+) |
| Friday, 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 * Notes on writing rational functions given the characteristics   Classwork/Homework: pg. 211 #33-38 (graph each) | MCC9-12.F.BF.3  MCC9-12.F.IF.5  MC9-12.F.IF.7d(+) |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 3 | Monday, 1/16 | **MLK HOLIDAY** | | | |
| Tuesday, 1/17 | 6-4: Rational Functions | Graph Rational functions  Transform rational functions by changing parameters | Classwork: Students will work in groups to review all concepts from 6.4 | MCC9-12.F.IF.5  MCC9-12.F.IF.7b  MCC9-12.F.BF.3 |
| Wednesday, 1/18 | 6-4: Rational Functions | Graph Rational functions  Transform rational functions by changing parameters | 6.4 Test | MCC9-12.F.IF.5  MCC9-12.F.IF.7b  MCC9-12.F.BF.3 |
| Thursday, 1/19 | 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 * 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 |
| Friday, 1/20 | 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 |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 4 | Monday, 1/23 | 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 an activity around the room to practice 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 |
| Tuesday, 1/24 | 7-1: Radical Functions | Assessment | 7.1 Quiz (over square roots and cube roots) | MCC9-12.F.IF.5  MCC9-12.F.IF.7b  MCC9-12.F.BF.3 |
| Wednesday, 1/25  Essay –  English | 7-1: Radical Functions | Review | Warmup: List the domain and range of a square root and cube root function   * Notes on Inequalties * Notes on graphing radical inequalities * Notes on writing radical functions given the transformations   Homework: p. 232 #20-23, 43-46 | MCC9-12.F.IF.5  MCC9-12.F.IF.7b  MCC9-12.F.BF.3 |
| Thursday, 1/26 | 7-1: Radical Functions | Assessment | 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.F.IF.5  MCC9-12.F.IF.7b  MCC9-12.F.BF.3 |
| Friday, 1/27 | 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 |

**\*NO OTHER MAJOR ASSESSMENTS ON WEDNESDAY, JANUARY 25.**\*

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 5 | Monday, 1/30 | 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 |
| Tuesday, 1/31 | 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 |
| Wednesday, 2/1  Essay –  Social Studies | 8-2: Inverses of Relations & Functions | | Finding inverse of linear, quadratic and cubic functions | Warm Up: Solving an equation for y in terms of x  Key Vocabulary: inverse relation, inverse function   * Notes writing inverses of linear functions using inverse operations   Homework: pg. 269 #2-13, 18,19 | MCC9-12.F.IF.5  MCC9-12.F.IF.7b  MCC9-12.F.BF.3  MCC9-12.A.REI.2 |
| Thursday, 2/2 | 8-2: Inverses of Relations & Functions | | Finding inverse of linear, quadratic and cubic functions | Warm Up: Finding a linear inverse  Key Vocabulary: inverse relation, inverse function   * Notes on graphing inverse relations over the line y=x * Graph linear functions then graph their inverse   Homework: graph problems from last night’s homework | MCC9-12.F.IF.5  MCC9-12.F.IF.7b  MCC9-12.F.BF.3  MCC9-12.A.REI.2 |
| Friday, 2/3 | 8-2: Inverses of Relations & Functions | Finding inverse of linear, quadratic and cubic functions | | Warm Up: Graphing a linear functions and its inverse  Classwork: Students will work with partners to practice finding and graphing linear inverses | MCC9-12.F.BF.4c  MCC9-12.F.BF.4a  MCC9-12.A.CED.2 |

**\*NO OTHER MAJOR ASSESSMENTS ON WEDNESDAY, FEBRUARY 1.**\*

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 6 | Monday, 2/6 | 8-2: Inverses of Relations & Functions | Assessment | 8.2 Quiz over Linear Inverses (partner quiz) | MCC9-12.F.BF.4c  MCC9-12.F.BF.4a  MCC9-12.A.CED.2 |
| Tuesday, 2/7 | 8-2: Inverses of Relations & Functions | Graphing inverses of linear, quadratic and cubic functions | Warm Up: Writing linear inverses  Key Vocabulary: inverse relation, inverse function   * Notes on writing inverses of square root, cube root, and rational functions * Let students attempt worksheets on their own with partners, then go over as a class   Homework: worksheet | MCC9-12.F.BF.4c  MCC9-12.F.BF.4a  MCC9-12.A.CED.2 |
| Wednesday, 2/8 | 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 |
| Thursday, 2/9 | Benchmark Review |  | BM Review (focus on chapter 6) |  |
| Friday, 2/10  Benchmark #1 –  Electives | Benchmark Review |  | BM Review (focus on Chapter 7 and 8) |  |

**\*NO OTHER MAJOR ASSESSMENTS FROM THURSDAY, FEBRUARY 9 – FRIDAY, FEBRUARY 17 (INCLUSIVE).\***

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 7 | Monday, 2/13  Benchmark #1 –  Math | Benchmark | Assessment | SBM #1 |  |
| Tuesday, 2/14  Benchmark #1 –  English | Review 8.1 & 8.2 | Students will review concepts from 8.1 & 8.2 | Students will work together (groups, partners, individual) to complete review assignments from 8.1 & 8.2 | MCC9-12.F.IF.7e  MCC9-12.A.CED.2  MCC9-12.F.BF.4c  MCC9-12.F.BF.4a  MCC9-12.A.CED.2 |
| Wednesday, 2/15 | 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 |
| Thursday, 2/16  Benchmark #1 –  Science | 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 |
| Friday, 2/17  Benchmark #1 –  Social Studies | Review | Assessment | Classwork: Students will work in groups to review all concepts from 8-1 and 8-2 including exponential functions, writing inverses, and graphing inverses  Notes on graphing the inverse of exponential functions by flipping the table | MCC9-12.F.IF.7e  MCC9-12.A.CED.2  MCC9-12.F.BF.4c  MCC9-12.F.BF.4a |

**\*NO OTHER MAJOR ASSESSMENTS FROM THURSDAY, FEBRUARY 9 – FRIDAY, FEBRUARY 17 (INCLUSIVE).\***

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 8 | Monday, 2/20 | **Winter Holiday** | | | |
| Tuesday, 2/21 |
| Wednesday, 2/22 |
| Thursday, 2/23 | **FACULTY AND STAFF PROFESSIONAL LEARNING DAY / STUDENT HOLIDAY** | | | |
| Friday, 2/24 |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 9 | Monday, 2/27 | 8-1: Exponential Functions, Growth & Decay | Write and evaluate exponential expressions to model growth and decay | Classwork: Students will work in groups to review all concepts from 8-1 and 8-2 including exponential functions, writing inverses, and graphing inverses | MCC9-12.F.IF.7e  MCC9-12.A.CED.2  MCC9-12.F.BF.4c  MCC9-12.F.BF.4a |
| Tuesday, 2/28 | 8-1: Exponential Functions, Growth & Decay | Write and evaluate exponential expressions to model growth and decay | Warm Up: Graphing an exponential function  -Notes on using a graphing calculator to solve word problems that model growth and decay  Homework: p. 262 (10-11, 21-22) | MCC9-12.F.IF.7e  MCC9-12.A.CED.2  MCC9-12.F.BF.4c  MCC9-12.F.BF.4a |
| Wednesday, 3/1  Essay –  Science | Ch. 8 Review | Review | Classwork: Students will work in groups to complete a review sheet over concepts from 8.1-8.2 | All module 8 standards |
| Thursday, 3/2 | Ch. 8 Test | Assessment | 8.1-8.2 Test | All module 8 standards |
| Friday, 3/3 | 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  pg. 280 #19-31 odd (Worksheet) | MCC9-12.F.BF.5+ |

**\*NO OTHER MAJOR ASSESSMENTS ON WEDNESDAY, MARCH 1.**\*

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 10 | Monday, 3/6 | 8-3: Logarithmic Functions | Write equivalent forms for exponential and logarithmic functions | Warm-Up: changing between log and exponential form  -Review notes from Friday as a class  -Practice concepts from 8.3  Homework: Study for Quiz | MCC9-12.F.BF.5+ |
| Tuesday, 3/7 | 8-3: Logarithmic Functions | Write equivalent forms for exponential and logarithmic functions | 8.3 Quiz | MCC9-12.F.BF.5+ |
| Wednesday, 3/8 | 9-1: Properties of Logarithms | Use properties to simplify logarithmic expressions  Solve exponential and logarithmic equations | 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 |
| Thursday, 3/9 | 9-1: Properties of Logarithms | Use properties to simplify logarithmic expressions | 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 |
| Friday, 3/10 | 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+  MCC9-12.F.IF.8b |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 11 | Monday, 3/13 | FACULTY AND STAFF PROFESSIONAL LEARNING DAY / STUDENT HOLIDAY | | | | |
| Tuesday, 3/14 | 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 |
| Wednesday, 3/15 | 9.1-9.2 Quiz | Assessment | | 9.1-9.2 Quiz | MCC9-12.F.LE.4  MCC9-12.F.BF.5+  MCC9-12.F.IF.8b |
| Thursday, 3/16  Early Release  Professional  Learning  (1st, 2nd, 3rd, 5th) | 9-2: Exponential & Logarithmic Equations & Inequalities | | Solve exponential and logarithmic equations | Warm Up: Solve an exponential equation   * Solving logarithmic equations using properties and exponents to rewrite   Classwork: pg. 296 #21-33 | MCC9-12.F.BF.5+  MCC9-12.A.CED.2 |
| Friday, 3/17  Early Release  Professional  Learning  (7th, 6th, 4th, 5th) | 9-2: Exponential & Logarithmic Equations & Inequalities | | Solve exponential and logarithmic equations | Warm Up: Solve an exponential equation   * Solving logarithmic equations using properties and exponents to rewrite   Classwork: pg. 296 #21-33 | MCC9-12.F.BF.5+  MCC9-12.A.CED.2 |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 12 | Monday, 3/20 | 9-2: Exponential & Logarithmic Equations & Inequalities | Solve exponential and logarithmic equations | Classwork: Students will complete an activity to practice solving all types of logarithmic and exponential equations. Students will have to determine which method to use. | All module 9 standards |
| Tuesday, 3/21 | 9.3: Inverse of Logs | Write the inverse of an exponential function  Write the inverse of a logarithmic functions | Warmup: Write a quadratic inverse   * Notes on writing the inverse of exponential and logarithmic equations   Homework: Worksheet on Inverses | MCC9-12.F.BF.5+ |
| Wednesday, 3/22  Essay –  Math | Math Essay |  | Math Essay |  |
| Thursday, 3/23 | 9.3: Inverse of Logs | Write the inverse of an exponential function  Write the inverse of a logarithmic functions | Warm Up: Write a logarithmic inverse  Classwork: Students will complete a group activity to practice writing the inverse of logarithmic and exponential functions | MCC9-12.F.BF.5+ |
| Friday, 3/24 | 9-3: Inverse of Logs | Write the inverse of exponentials and logarithms  Solve word problems using logarithmic and exponential inverses | 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 |

**\*NO OTHER MAJOR ASSESSMENTS ON WEDNESDAY, MARCH 22.**\*

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 13 | Monday, 3/27 | Review | Review | Classwork: Students will work in groups to complete a review over all concepts from module 9. | All Module 9 Standards |
| Tuesday, 3/28 | Module 9 Test | Assessment | **TEST MODULE 9** | All Module 9 Standards |
| Wednesday, 3/29 | 12-3: Piecewise Functions  13-1: Transforming Polynomial Functions | Write and graph piecewise functions.  Use piecewise functions to describe real-world situations.  Transform polynomial functions | 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)  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 * Word problem examples on interpreting transformations in polynomial equations   Homework: pg. 407 #1-12  pg. 407-8 #13-25 | MCC9-12.F.BF.3  MCC9-12.F.IF.4  MCC9-12.F.IF.2  MCC9-12.F.IF.7b  MCC9-12.A.CED.2 |
| Thursday, 3/30 | 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 |
| Friday, 3/31 | 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 |
| **SPRING BREAK!**  **Friday, 4/3 🡪 Friday, 4/7** | | | | | |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 14 | Monday, 4/10 | Ch. 12/13 Reteach/Review | Reteach and Revisit any missed or weak concepts from ch. 12/13 | Warm Up: 5 review problems from ch. 12/13  Reteach missed concepts through examples  Allow students to begin review assignment for Test on Wednesday | 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 |
| Tuesday, 4/11 | 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 |
| Wednesday, 4/12 | Ch. 12/13 Test | Assessment | **Test Module 13 and 12.3**  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  MCC9-12.F.BF.3  MCC9-12.F.BF.1 |
| Thursday, 4/13 | Benchmark Review |  | Benchmark Review  Focus on Chapter 1, 3, 4 & 6 |  |
| Friday, 4/15  Benchmark #2 –  Electives | Benchmark Review |  | Benchmark Review  Focus on Chapter 1, 6.4, 7, 8, & 9 |  |

**\*NO OTHER MAJOR ASSESSMENTS FROM THURSDAY, APRIL 13 – FRIDAY, APRIL 21 (INCLUSIVE).\***

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 15 | Monday, 4/18  Benchmark #2 –  English | Benchmark Review |  | Benchmark Review  Focus on Chapter 12 & 13 |  |
| Tuesday, 4/19  Benchmark #2 –  Math | Math Benchmark |  | Math Benchmark |  |
| Wednesday, 4/20 | 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, 4/21  Benchmark #2 –  Social Studies | 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, 4/22  Benchmark #2 –  Science | 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(+) |

**\*NO OTHER MAJOR ASSESSMENTS FROM THURSDAY, APRIL 13 – FRIDAY, APRIL 21 (INCLUSIVE).\***

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 16 | Monday, 4/24 | 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 |
| Tuesday, 4/25 | Ch. 14 Quiz | | Assessment | Chapter 14 Quiz | MCC9-12.F.BF.4b(+)  MCC9-12.F.BF.4 |
| Wednesday, 4/26  Essay –  Electives | 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 | MCC9-12.F.BF.4b(+)  MCC9-12.F.BF.4 |
| Thursday, 4/27 | 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 |
| Friday, 4/28 | Ch. 14 Test | | Assessment | **TEST MODULE 14** | All module 14 standards |

**\*NO OTHER MAJOR ASSESSMENTS ON WEDNESDAY, APRIL 26.**\*

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 17 | Monday, 5/1 | 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 |
| Tuesday, 5/2 | 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 |
| Wednesday, 5/3 | 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 |
| Thursday, 5/4 | More Practice/Review of 2.1 | Use simulations and hypothesis testing to compare treatments from a randomized experiment | Group Review Worksheet/Assignment | MCC9-12.S.IC.5  MCC9-12.S.IC.6 |
| Friday, 5/5 | 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 |
| AP Exams  Monday, 5/1 – AP Chem, AP Enviro Science, and AP Psych  Tuesday, 5/2 – AP Spanish Language  Wednesdays, 5/3 – AP English Literature  Thursday, 5/4 – AP Government  Friday, 5/5 – AP US History, AP Studio Art | | | | Milestones  To be determined. | |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 18 | Monday, 5/8 | 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 |
| Tuesday, 5/9 | 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 |
| Wednesday, 5/10 | 2-1 thru 2-3 | Review/Reteach | Reteach/Review Any missed concepts from 2.1 – 2.3 | MCC9-12.S.IC.3  MCC9-12.S.IC.4  MCC9-12.S.ID.4 |
| Thursday, 5/11 | 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, 5/12 | Quiz 2-1 thru 2-3 |  | **QUIZ 2-1 thru 2-3** |  |
| AP Exams  Monday, May 8 – AP Biology  Tuesday, May 9 – AP Calculus  Wednesday, May 10 – AP English Language and AP Macroeconomics  Thursday, May 11 – AP World History and AP Statistics  Friday, May 12 – AP Human Geography | | | | Milestones  To be determined. | |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 19 | Monday, 5/15 | 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, 5/16 | Ch. 2 Review | Review | Review for Module 2 Test. Students will work on review in collaborative pairs or groups | All module 2 standards |
| Wednesday, 5/17 | Ch. 2 Test | Assessment | **TEST MODULE 2** | All module 2 standards |
| Thursday, 5/18 | Exam Review |  | Exam Review-TBD |  |
| Friday, 5/19 | Exam Review |  | Exam Review-TBD |  |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 20  Benchmark  Week #3 | Monday, 5/22 | **Exam Review** | | | |
| Tuesday, 5/23 | **Semester Exams (Benchmark #3 – 7th)** | | | |
| Wednesday, 5/24 | **Semester Exams (Benchmark #3 – 1st & 2nd)** | | | |
| Thursday, 5/25 | **Semester Exams (Benchmark #3 – 3rd & 4th)** | | | |
| Friday, 5/26 | **Semester Exams (Benchmark #3 – 5th & 6th)** | | | |