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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| 1 | Thursday, 8/2 | Syllabus | To understand strategies for success and classroom expectations.  To review material from ACA the will be covered on the GA Milestone Test  Syllabus  How many squares  Equation Maze | * Go over syllabus * Textbook Distribution and Preview * Online Textbook Discussion   Begin Geometry Review |  |
| Friday, 8/3 | Geometry Diagnostic | To determine the skills of our current students in the geometry standard  Students work in collaborative pairs on a mixed review worksheet covering Milestone related material from ACA | * Examples from the student assessment book   Homework and Classwork will be assigned and discussed |  |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 2 | Monday, 8/6 | 1-1 Complex Numbers and Roots | Define and use imaginary and complex numbers | Warm Up: 3 radical problems  Key Vocabulary: imaginary number, complex number, complex conjugate   * Review of Simplifying Radicals * Notes on simplifying radicals with imaginary numbers * Venn Diagram that adds complex numbers to the number system * Preview solving quadratics using imaginary numbers   Homework: Pg. 9-10 (18-25, 46-51) | MCC9-12.N.CN.1 |
| Tuesday, 8/7 | 1-1 Complex Numbers and Roots | Define and use imaginary and complex numbers | Warm Up: 3 radical problems  Key Vocabulary: imaginary number, complex number, complex conjugate   * Review of homework * Notes and student practice on equating complex numbers * Notes on complex conjugates * Group activity (from last year) * Summary ticket out the door: Students will convert to a complex number and then give its conjugate   Homework: Pg. 9-10 (26, 27, 32-35, 37-45,circles problems on worksheet) | MCC9-12.N.CN.1  MCC9-12.CN.3(+) |
| Wednesday, 8/8 | 1-2 Operations with Complex Numbers | Perform Operations with complex numbers | Warm Up: products of radical binomials  Key Vocabulary:   * Review of Homework * Notes and student practice on adding and subtracting complex numbers * Notes on powers of i * Classwork practicing simplifying powers of i * Notes on multiplying complex numbers   Homework: PG. 17 (46-51, 58-63, 85-96) | MCC9-12.N.CN.2 |
| Thursday, 8/9 | 1-2 Operations with Complex Numbers | Perform Operations with complex numbers | Warm Up: 4 mixed Ch 1 Review questions  Key Vocabulary: complex conjugate   * Review HW answers * Notes and collaborative pairs working on dividing complex numbers   Homework: worksheet- has 6 division problems and mixed review for quiz | MCC9-12.N.CN.2  MCC9-12.N.CN.3(+) |
| Friday, 8/10 | Quiz on 1-1 & 1-2 | Assessment | Warm Up: complex number examples, equating example   * Go over homework * **Quiz over complex numbers** * **HW: exponent review worksheet (decided not to assign)** | MCC9-12.N.CN.1  MCC9-12.N.CN.2  MCC9-12.N.CN.3(+) |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 3 | Monday, 8/13 | 1-2a Rational and Radical Exponents | Simplify Expressions involving radicals and rational exponents | Warm Up: radicals involving variables – have they seen this?  Key Vocabulary: index, simplest radical form, rational exponents   * Discussion of simplifying square roots by finding groups of 2 leading into higher index numbers * Develop list of powers (up to 5) * Notes and student practice on simplifying radicals   Homework: Pg. 23 (1-12) | MCC9-12.N.RN.1  MCC9-12.N.RN.2 |
| Tuesday, 8/14 | 1-2a Rational and Radical Exponents | Simplify Expressions involving radicals and rational exponents | Warm Up: 2 examples  Key Vocabulary: index, simplest radical form, rational exponents   * Review of Homework * Notes on converting between radical and rational form * Notes on properties of rational exponents * Notes/examples on simplifying expressions with rational exponents   Homework: Pg. 23 (14-36 evens) worksheet 1 (1-10) worksheet 2 (1-6, 16-21) | MCC9-12.N.RN.1  MCC9-12.N.RN.2 |
| Wednesday, 8/15 | 1-2a Rational and Radical Exponents | Simplify Expressions involving radicals and rational exponents | Warmup: 2 examples   * Review Homework * Notes on properties of rational exponents * Notes/examples on simplifying expressions with rational exponents * Collaborative pairs practice on 1.2a * HW: Pg. 23 (37-52all) Finish 2 worksheets | MCC9-12.N.RN.1  MCC9-12.N.RN.2 |
| Thursday, 8/16 | Review | Review topics in extending the numbers system | Warm Up: HW Discussion   * Review of Unit 1 material – collaborative pairs work on review guide   Homework: Study for Test 1 | MCC9-12.N.RN.1-3  MCC9-12.N.CN.1-4(+)  MCC9-12.A.APR.1 |
| Friday, 8/17 | Test Module 1 | Assess extending the number system | **1.1-1.4 Test** | MCC9-12.N.RN.1-3  MCC9-12.N.CN.1-4(+) |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 4 | Monday, 8/20 | 2-1 Factoring Quadratic Expressions | Factor quadratic trinomials in the form | | **Warm Up: Writing Prompt #1**  Key Vocabulary: monomial, polynomial, binomial, trinomial   * Notes on factoring polynomials using guess and check or X method * Emphasis on sign rules * Word problem examples * Summary- Ticket out the door: students will describe the sign rules using their own words * Homework: Pg. 40 (38-50all, 52, 53, 62, 78) * Nasco Worksheet | MCC9-12.A.SSE.2 |
| Tuesday, 8/21 | 2-2 Factoring Quadratic Expressions | Factor quadratic expressions in the form | | Warm Up: Discuss with a partner the difference between the two forms of quadratic trinomials  Key Vocabulary: monomial, polynomial, binomial, trinomial   * Notes on factoring polynomials where leading coefficient is not 1 * Guess and Check (check with FOIL) * Grouping Method * Factoring when a is negative   Homework: Worksheet “Factoring Trinomials Practice” | MCC9-12.A.SSE.2 |
| Wednesday, 8/22 | 2-2 Factoring Quadratic Expressions | Factor quadratic expressions in the form | | Warm Up: 3 Factoring GCF problems  Key Vocabulary: monomial, polynomial, binomial, trinomial   * Review of Homework * Group competition game of mixed factoring examples (pinterest bucket game) * 2017- worked in groups on 2.1/2.2 Review   Homework: Extra examples (worksheet) and study for quiz | MCC9-12.A.SSE.2 |
| Thursday, 8/23 | Factoring Quiz 2-1 & 2-2 | Factor quadratic trinomials in both forms | | Warm Up: 3 Factoring GCF problems  Key Vocabulary: monomial, polynomial, binomial, trinomial   * Review of Homework   **Factoring Quiz over 2.1-2.2** | MCC9-12.A.SSE.2 |
| Friday, 8/24 | 2-3 Factoring Quadratic Expressions | | Factor perfect square trinomials and difference of two squares | Warm Up: 5 mixed factoring examples  Key Vocabulary: perfect square, difference of two squares   * Notes on recognizing and factoring perfect square trinomials * Notes on recognizing and factoring difference of two squares * Word problem examples showing the use of factorization   Homework: Worksheet on special products | MCC9-12.A.SSE.2  MCC9-12.A.CED.2 |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 5 | Monday, 8/27\*  Essay – English | 2-3 Factoring Quadratic Expressions | | Factor perfect square trinomials and difference of two squares | Warm Up: 3 Factoring GCF problems  Key Vocabulary: perfect square, difference of two squares   * Review of Homework * Higher power trinomials * Marker board challenge with multi- step factoring examples (GCF then factor, Double DOTS, etc)   Homework: Factoring mixed review worksheet |  |
| Tuesday, 8/28 | Review | | Factor Quadratics | Warm Up: present answers to homework (draw numbers)  Key Vocabulary: monomial, binomial, trinomial, perfect square, difference of two squares   * Factoring Eggs Activity * Module 2 Study Guide   Homework: Assigned Problems from Study Guide | MCC9-12.A.SSE.2  MCC9-12.A.CED.2 |
| Wednesday, 8/29 | Test Module 2 | | Factor Quadratics | **2.1-2.3 Test** | MCC9-12.A.SSE.2  MCC9-12.A.CED.2 |
| Thursday, 8/30 | 4-1 Solving Quadratics by Factoring | | Solve quadratic functions by graphing and factoring | Warm Up: Find x-int from linear table and graph  Key Vocabulary: zero, root   * Notes on solving by square root method * Examples of solving by factoring   Homework: Worksheet on both methods | MCC9-12.F.IF.7a  MCC9-12.A.SSE.3a  MCC9-12.F.IF.8a  MCC9-12.A.SSE.2 |
| Friday, 8/31 | Geometry Review | | Circles Focus | Live Binders Circle Unit Packet  Circle Problems (Arcs, Angles, Chords, Sectors, etc)  2017- extra day to practice solving quads | MCC9-12.G.C.2  MCC9-12.G.C.4(+)  MCC9-12.G.SRT.8 |

**\*NO OTHER MAJOR ASSESSMENTS ON MONDAY, AUGUST 28.**

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 6 | Monday, 9/3 | **LABOR DAY HOLIDAY** | | | |
| Tuesday, 9/4 | 4-1 Solving Quadratics by Factoring | Solve quadratic functions by graphing and factoring | Warm Up: Find x-int from linear table and graph  Key Vocabulary: zero, root   * Notes on writing quadratic functions given the roots * Marker board practice- Examples of solving by factoring   Homework: 4.1B Worksheet | MCC9-12.F.IF.7a  MCC9-12.A.SSE.3a  MCC9-12.F.IF.8a  MCC9-12.A.SSE.2 |
| Wednesday, 9/5 | 4-2 Completing the Square | Solve quadratics by completing the square | Warm Up: warm up from TE  Key Vocabulary: zero, root   * Review HW * 4.1 Concept Check- daily grade * Notes on solving quadratics by completing the square   Homework: None | MCC9-12.A.REI.4b  MCC9-12.A.SSE.2  MCC9-12.A.REI.4a |
| Thursday, 9/6 | 4-2 Completing the Square | Solve quadratics by completing the square | Warm Up: How do you keep and equation balanced?  Key Vocabulary: completing the square   * Review homework * Demonstrate how to write a quadratic equation into vertex form   Homework: Pg 108-109 (32-38, 50) | MCC9-12.A.REI.4b  MCC9-12.A.SSE.2  MCC9-12.A.REI.4a |
| Friday, 9/7\* | 4-1 and 4-2 Quiz | Solving quadratics by factoring, graphing, and completing the square | Review of Homework  **QUIZ on 4.1-4.2** | MCC9-12.F.IF.7a  MCC9-12.A.SSE.3a  MCC9-12.F.IF.8a  MCC9-12.A.SSE.2  MCC9-12.A.REI.4b  MCC9-12.A.SSE.2  MCC9-12.A.REI.4a  MCC9-12.A.SSE.3b |

**\*NO MAJOR ASSESSMENTS ON THE FRIDAY BEFORE BENCHMARK WEEK.**

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 7\* | Monday, 9/10  Benchmark #1 –  ENGLISH | 4-3 Quadratic Formula | Solve quadratic equations using the quadratic formula | Warm Up: Writing functions in standard form  Key Vocabulary: discriminant   * Quad solve video * Deriving the Quadratic Formula (quiz to follow) * See who knows the formula by memory * Examples of solving using the quadratic formula, including complex number solutions * Summary: when would you use the quadratic formula to solve a quadratic?   Homework: Pg 117 -118 (18-29, 38-43) | MCC9-12.A.REI.4b  MCC9-12.N.CN.7 |
| Tuesday, 9/11  Benchmark #1 –  SCIENCE | Benchmark Review |  | Review for Benchmark 1  Students will work in collaborative pairs to complete review assignment  Progress and answers will be monitored throughout class period | All standards up to this date |
| Wednesday, 9/12  Benchmark #1 –  ELECTIVES | Benchmark Review |  | Review for Benchmark 1  Students will work in collaborative pairs to complete review assignment  Progress and answers will be monitored throughout class period. | All standards up to this date |
| Thursday, 9/13  Benchmark #1 –  MATH | Benchmark #1 |  | **Benchmark #1**  **(point value = 100 points)** | All standards up to this date |
| Friday, 9/14  Benchmark #1 –  SOCIAL STUDIES | 4-3 Quadratic Formula | Solve quadratic equations using the quadratic formula | Warm Up: Deriving the quadratic formula from memory  Key Vocabulary: derive   * Teach how to derive the quadratic formula * Students practice this several times * Begin notes on application problems   Homework: Application problems #1, 4, 6 | MCC9-12.A.REI.4b  MCC9-12.N.CN.7 |

**\*NO OTHER MAJOR ASSESSMENTS MAY BE GIVEN THIS WEEK.**

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 8 | Monday, 9/17 | 4-3 Quadratic Formula | Solving quadratics | | Warmup: 2 quadratic problems   * Quiz on deriving the quadratic formula * Notes on types of quadratic applications * Finish worksheet on quadratic applications   HW: Finish worksheet | MCC9-12.A.REI.4b  MCC9-12.N.CN.7 |
| Tuesday, 9/18 | Review | Solving quadratics | | Review of Homework  Students will work in collaborative pairs to complete review assignment  Progress and answers will be monitored throughout class period | All Module 4 standards |
| Wednesday, 9/19 | Test Module 4 | Solving quadratics | | **Test Module 4** | All Module 4 standards |
| Thursday, 9/20 | 3-1 Graphing Quadratics from Vertex Form | Identify quadratic transformations and write functions given the transformations | | Warm Up: Circles- 4 questions  Key Vocabulary: quadratic function, parabola, vertex, vertex form   * Notes on graphing quadratic functions using a table (identify vertex) * Notes on transformations (vertical/horizontal shift, reflection, stretches, and compressions) (graphic organizer) * Guided practice pg. 70 (2-12 even)   Homework: Pg. 70 (17-27 odd) pg. 71 (39-41) | MCC9-12.A.REI.10  MCC9-12.F.BF.3 |
| Friday, 9/21 | 3-1 Graphing Quadratics from Vertex Form | | Identify quadratic transformations and write functions given the transformations | Warm Up: Circles- 4 questions  Key Vocabulary: quadratic function, parabola, vertex, vertex form   * Notes on graphing quadratic functions using a table (identify vertex) * Notes on transformations (vertical/horizontal shift, reflection, stretches, and compressions) (graphic organizer) * Guided practice pg. 70 (2-12 even)   Homework: Pg. 70 (17-27 odd) pg. 71 (39-41) | MCC9-12.A.REI.10  MCC9-12.F.BF.3 |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 9 | Monday, 9/24\*  Essay – Social Studies | 3-1 Graphing Quadratics from Vertex Form | Transform quadratic functions. Describe the effect of changes in the parameters of | Warm Up: write a function given transformations  Key Vocabulary: quadratic function, parabola, vertex, vertex form   * Review of Homework   Classwork Pg. 70-71 (29-38) | MCC9-12.A.REI.10  MCC9-12.F.BF.3 |
| Tuesday, 9/25 | 3-1 Graphing Quadratics from Vertex Form | Identify quadratic transformations and write functions given the transformations | Warm Up: Circles- 4 questions  Key Vocabulary: quadratic function, parabola, vertex, vertex form   * Notes on graphing quadratic functions using a table (identify vertex) * Notes on transformations (vertical/horizontal shift, reflection, stretches, and compressions) (graphic organizer) * Guided practice pg. 70 (2-12 even)   Homework: Pg. 70 (17-27 odd) pg. 71 (39-41) | MCC9-12.A.REI.10  MCC9-12.F.BF.3 |
| Wednesday, 9/26 | 3-1 Graphing Quadratics from Vertex Form | Identify quadratic transformations and write functions given the transformations | Warmup: graph and list all characteristics   * Review HW * Quiz on Vertex Form | MCC9-12.A.REI.10  MCC9-12.F.BF.3 |
| Thursday, 9/27 | 3-2 Properties of Quadratic Functions in Standard Form | Define, identify, and graph quadratic functions. Identify and use maximum and minimums of quadratics to solve problems | Warm Up: Graph 2 quadratic functions (one with table and one with transformations)  Key Vocabulary: axis of symmetry, standard form, minimum/maximum value   * Notes on how to identify axis of symmetry and vertex in standard form * Identify characteristics of quadratics (AOS, vertex, y-intercept, x-intercept, direction, domain and range, max/min value)   Homework: Pg. 78 (15-29 odd) | MCC9-12.F.IF.8  MCC9-12.F.IF.7a |
| Friday, 9/28  Early Release  Homecoming | 3-2 Properties of Quadratic Functions in Standard Form | Define, identify, and graph quadratic functions. Identify and use maximum and minimums of quadratics to solve problems | Warm Up: Assign partners to compare homework answers. Go over any errors with the class  Key Vocabulary: axis of symmetry, standard form, minimum/maximum value   * Group Work: Word problems using quadratic functions to solve real world situations   Classwork/Homework: Pg. 78 -79 (31-41) | MCC9-12.F.IF.8  MCC9-12.F.IF.7a |

**\*NO OTHER MAJOR ASSESSMENTS ON MONDAY, SEPTEMBER 24.**

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 10 | Monday, 10/1  Essay – Science | 3-2 Properties of Quadratic Functions in Standard Form | Define, identify, and graph quadratic functions. Identify and use maximum and minimums of quadratics to solve problems | Warm Up: Assign partners to compare homework answers. Go over any errors with the class  Key Vocabulary: axis of symmetry, standard form, minimum/maximum value   * Group Work: Word problems using quadratic functions to solve real world situations | MCC9-12.A.REI.10  MCC9-12.F.BF.3  MCC9-12.F.IF.8  MCC9-12.F.IF.7a |
| Tuesday, 10/2 | 3-2 Applications of Quadratic Functions in Standard Form | Identify and use maximum and minimums of quadratics to solve problems application problems | Warm Up: Assign partners to compare homework answers. Go over any errors with the class  Key Vocabulary: axis of symmetry, standard form, minimum/maximum value   * Group Work: Word problems using quadratic functions to solve real world situations | MCC9-12.A.REI.10  MCC9-12.F.BF.3  MCC9-12.F.IF.8  MCC9-12.F.IF.7a |
| Wednesday, 10/3 | Quiz 3-1 & 3-2 | Assessment | Warm Up: Review HW  **Quiz 3.1-3.2** | MCC9-12.A.REI.10  MCC9-12.F.BF.3  MCC9-12.F.IF.8  MCC9-12.F.IF.7a |
| Thursday, 10/4 | Converting Forms | Vertex & Standard Form of Quadratic Functions | Notes on converting quadratic functions from standard to vertex forms, and from vertex to standard forms | MCC9-12.A.REI.10  MCC9-12.F.BF.3  MCC9-12.F.IF.8  MCC9-12.F.IF.7a |
| Friday, 10/5 | **FACULTY AND STAFF PROFESSIONAL LEARNING DAY / STUDENT HOLIDAY** | | | |

**\*NO OTHER MAJOR ASSESSMENTS ON MONDAY, OCTOBER 2.**

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 11 | Monday, 10/8 | **FALL HOLIDAY!** | | | |
| Tuesday, 10/9 | Converting Forms | Vertex & Standard Form of Quadratic Functions | Notes on converting quadratic functions from standard to vertex forms, and from vertex to standard forms | MCC9-12.A.REI.10  MCC9-12.F.BF.3  MCC9-12.F.IF.8  MCC9-12.F.IF.7a |
| Wednesday, 10/10  PSAT  College & Career Fair | Comparing Quadratic Functions | Identify characteristics of quadratic functions using their forms and graphs | Milestone examples and worksheet examples on multiple quadratic functions in order to determine characteristics in different forms and formats. | MCC9-12.A.REI.10  MCC9-12.F.BF.3  MCC9-12.F.IF.8  MCC9-12.F.IF.7a |
| Thursday, 10/11 | Review | Students will show mastery of Module 3 standards | Review of HW  Students will work in collaborative pairs to complete review assignment  Progress and answers will be monitored throughout the class period | All Module 3 standards |
| Friday, 10/12 | Review | Students will show mastery of Module 3 standards | Review of HW  Students will work in collaborative pairs to complete review assignment  Progress and answers will be monitored throughout the class period | All Module 3 standards |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 12 | Monday, 10/15 | MATH ESSAY |  | MATH ESSAY | All Module 3 standards |
| Tuesday, 10/16 | Test Module 3 | Students will show mastery of Module 3 standards | **Module 3 Test** | All Module 3 standards |
| Wednesday, 10/17 | Circles | Work with circles in standard form | Warm Up: midpoint and distance questions  Key Vocabulary: center, radius   * Notes on center, radius * Discussion of graphing circles * Notes on writing equations in standard form   Homework: Circles Worksheet Day 1 | MCC9-12.G.GPE.1 |
| Thursday, 10/18 | Circles | Work with circles in general form | Warm Up: Milestone questions  Key Vocabulary: completing the square   * Review of homework * Notes on converting between standard and general form * Notes on graphing given general form   Homework: Circles worksheet day 2 | MCC9-12.G.GPE.1 |
| Friday, 10/19 | 5-2 Circles in the coordinate plane | Quiz  Write equations and graph circles  Use the equation of a circle to solve problems | Warm Up: Warmup from TE  Key Vocabulary: center   * QUIZ * Notes on proofs using circles * Proving a point lies on or off a circle using distance formula   Homework/Classwork: Worksheet packet | MCC9-12.G.GPE.1 |

**\*NO MAJOR ASSESSMENTS ON THE FRIDAY BEFORE BENCHMARK WEEK.**

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 13 | Monday, 10/22 | Arcs and Angles | Assess student understanding of central angles, inscribed angles | Warm Up: EOCT prep questions   * Review circle rules on inscribed and central angles and arc addition.   Homework: Worksheet from purple book | Geometry Standard |
| Tuesday, 10/23 | Inscribed Angles | How to find angles when vertex is on the circle | Warm Up: Milestone review  Key Vocabulary: vertex  Review Homework  Show examples of finding arc measures when the vertex of the angle is on circle.  Extra Properties on circle sheet  Worksheet from purple book | Geometry Standard |
| Wednesday, 10/24 | CHORD & SECANT PROPERTIES |  | Warm Up: Milestone Review  Key Vocabulary: Chord, Secant   * Review homework * Notes/Examples on finding lengths of chords * Notes/Examples on finding lengths of secants   Homework: Worksheet from purple book | CHORD & SECANT PROPERTIES |
| Thursday, 10/26 | Angles in and out of circles | How to find angles when vertex is on, in and out of circle | Warm Up: Milestone review  Key Vocabulary: vertex  Review Homework  Show examples of finding arc measures when the vertex of the angle is on, in and outside of the circle.  Homework: Worksheet from purple book | Geometry Standard |
| Friday, 10/27 | Segment Properties | Student will be able apply the properties of segment lengths to solve problems | Warm Up: Milestone review  Key Vocabulary: vertex  Review Homework  Show examples of the lengths of segments.  Homework: Worksheet from purple book | Geometry Standard |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 14 | Monday, 10/29 | Area and Sector Area | Calculating Area and using Sector Area | Warm Up: Milestone Review  Key Vocabulary: sector   * Review homework * Notes/Examples of finding area and radius * Notes/Examples on Sector Area * Notes/Examples on Area of Shaded Region   Homework: Worksheet from purple book | Geometry Standard |
| Tuesday, 10/30  Science  Benchmark #2 | Benchmark Review |  | Review homework  Review for Benchmark #2  Students will work in collaborative pairs to complete review assignment | All previous standards |
| Wednesday, 10/31  English  Benchmark #2 | Benchmark Review |  | Review homework  Review for Benchmark #2  Students will work in collaborative pairs to complete review assignment | All previous standards |
| Thursday, 11/1  Elective  Benchmark #2 | Benchmark Review |  | Review homework  Review for Benchmark #2  Students will work in collaborative pairs to complete review assignment | All previous standards |
| Friday, 11/2 | Benchmark #2 |  | **Benchmark #2**  **(Point Value = 200 pts)** | All previous standards |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 15 | Monday, 11/5 | Review | Review | | Review homework  Review for the Circles Test  Students will work in collaborative pairs to complete review assignment |  |
| Tuesday, 11/6 | Circle Test |  | | **CIRCLE TEST** | Circle Test |
| Wednesday, 11/7 | Sets | Identify which individuals fall in subsets of a given situation | | Warm Up: Milestone Review Questions  Key Vocabulary: set, subset, Venn Diagram   * Notes/Examples on set notation problems using Venn Diagrams * Notes/Examples on set notation problems using sentences   Classwork/Homework: Venn Diagram/Sentence Set Notation Worksheet | MCC9-12.S.CP.1  MCC.MP.4  MCC9-12.G.MG.1 |
| Thursday, 11/8 | Basic Probability | | Identify the sample space and probability of an event occurring in that sample space | Warm Up: Venn Diagram Questions  Key Vocabulary: probability, sample space   * Notes on basic probability * Exercises on basic probability questions * Be sure to discuss cards, dice, etc.   Homework/Classwork: Probability Wksht | MCC9-12.S.CP.1  MCC.MP.4  MCC9-12.G.MG.1 |
| Friday, 11/9 | 6.3 -Experimental Prob & Practice | | Find the experimental probability of an event | Warm Up: Geometric Prob & Set Questions  Key Vocab: experimental probability   * Notes on experimental probability * Examples on types probability questions involving multiplication and addition * Classwork: pg. 186 #2-7, 9, 14-22   Homework: Probability Exercises Wksht | MCC9-12.S.CP.1  MCC.MP.4  MCC9-12.G.MG.1 |

**\*NO OTHER MAJOR ASSESSMENTS ON MONDAY, NOVEMBER 6.**

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 16 | Monday, 11/12\*  Essay - Electives | Probability Activity | Determine the geometric or experimental probability of an event | Students put into groups to work on probability station activity in commons area. Groups include: coins, dice, and corn hole to solve problems using geometric and experimental probability | MCC9-12.S.CP.1  MCC.MP.4  MCC9-12.G.MG.1 |
| Tuesday, 11/13 | Probability QUIZ |  | **QUIZ** | MCC9-12.S.CP.1  MCC.MP.4  MCC9-12.G.MG.1 |
| Wednesday, 11/14 | 7.1 Independent and Dependent Events | Determine whether events are independent or dependent | Warm Up: marbles in a bag probability questions  Key Vocabulary: independent events, dependent events, conditional probability   * Real world activity on probability (political polling) * Notes on finding the probability of independent events * Notes on finding the probability of dependent events (use ex. 2a)   Homework: pg. 627-628 (10-14, 19-22) | MCC9-12.S.CP.2  MCC9-12.S.CP.3 |
| Thursday, 11/15 | 7.1 Independent and Dependent Events | Determine whether events are independent or dependent | Warm Up: Write about the similarities and differences of independent and dependent events  Key Vocabulary: independent events, dependent events, conditional probability   * Review homework * Notes on using a table to find conditional probability * Use Deck of card examples to determine whether events are dependent or independent * Summary: how does replacement affect independence?   Homework: pg. 627-628 (15-18, 25-28, 30) | MCC9-12.S.CP.6  MC9-12.S.CP.8(+) |
| Friday, 11/16 | 7.2 Two-Way tables | Construct and interpret two-way tables | Warm Up: Find conditional probability of marbles in a bag  Key Vocabulary: joint relative frequency, marginal relative frequency, conditional relative frequency   * Review homework * Explain that this section is an extension of what they learned last year * As a class, examine different frequency tables to find joint, marginal, and conditional probabilities * Summary: how can we use this knowledge to answer comparison questions?   Homework: pg. 635-637 (7-15) | MCC9-12.S.ID.5  MCC9-12.S.CP.4  MCC9-12.S.MD.7(+) |
| **THANKSGIVING BREAK!**  **11/19 🡪 11/23** | | | | | |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 17 | Monday, 11/26 | 7.2 Two-Way tables | Construct and interpret two-way tables | Key Vocabulary: independent events, dependent events, conditional probability   * Review homework * Students will work with a partner to create a frequency table and 5-7 questions using all types of probabilities * Students will then switch with several groups, answering the questions   Homework: Worksheet review on 19.1/19.2 | MCC9-12.S.ID.5  MCC9-12.S.CP.4  MCC9-12.S.MD.7(+) |
| Tuesday, 11/27 | 7.3 Compound Events | Find the probability of mutually exclusive and inclusive events | Warm Up: basic card probability problems  Key Vocabulary: simple event, compound event, mutually exclusive event, inclusive event  \*\*\*\*QUIZ on 7.1-7.2   * Review homework * Create organizer on compound events * Examine different problems to determine whether they are mutually exclusive or inclusive * Notes/examples on mutually exclusive events * Summary/preview: poll class about music preference (hip hop, rock, or both). Create a venn diagram and show how probability is effected by overlapping situations   Homework: pg. 643-645 (12-13) worksheet | MCC9-12.S.CP.1 |
| Wednesday, 11/28 | 7.3 Compound Events | Find the probability of mutually exclusive and inclusive events | Warm Up: basic card probability problems with replacement  Key Vocabulary: simple event, compound event, mutually exclusive event, inclusive event   * Review homework * Finish organizer on compound events * Notes/examples on inclusive events * Teach how to create a Venn Diagram from a word problem * Do an example where the complement is needed * Ticket out door: students write down the formulas for mutually exclusive and inclusive events from memory   Homework: pg. 643-645 (14-19, 31-34) | MCC9-12.S.CP.7  MCC9-12.S.CP.9(+) |
| Thursday, 11/29 | Review | Review conditional probability problems | Warm Up: multiple choice questions from EOCT (last years review)  Review game on conditional probability  Homework: Study for test | Module 7 Standards |
| Friday, 11/30 | Test Module 7 | Assess student understanding of conditional probability | **Test Module 7** | Module 7 Standards |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(GSE, AP)** |
| Week 18 | Monday, 12/3 | Construction Project | Construction Project | Construction Project | MGSE9-12.G.CO.12  MGSE9-12.G.CO.13 |
| Tuesday, 12/4 | Construction Project | Construction Project | Construction Project | MGSE9-12.G.CO.12  MGSE9-12.G.CO.13 |
| Wednesday, 12/5 | Construction Project | Construction Project | Construction Project | MGSE9-12.G.CO.12  MGSE9-12.G.CO.13 |
| Thursday, 12/6 | Construction Project | Construction Project | Construction Project | MGSE9-12.G.CO.12  MGSE9-12.G.CO.13 |
| Friday, 12/7 | Construction Project | Construction Project | Construction Project | MGSE9-12.G.CO.12  MGSE9-12.G.CO.13 |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(CCGPS, GPS, AP)** |
| Week 19 | Monday, 12/10 | **Milestone Review** | | **Milestone Review** | **Milestone Review** |  |
| Tuesday, 12/11 | **Milestone Review** | | | | |
| Wednesday, 12/12 | **Milestone Review** | | | | |
| Thursday, 12/13 | **Milestone Review** | | | | |
| Friday, 12/14 | **Milestone Review** | | | | |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | | **INSTRUCTIONAL STRATEGIES** | **STANDARDS**  **(CCGPS, GPS, AP)** |
| Week 19 | Monday, 12/17 | **Milestone Review** | | **Milestone Review** | **Milestone Review** |  |
| Tuesday, 12/18 | **Milestone** | | | | |
| Wednesday, 12/19 | **Semester Exams (Benchmark #3) – 1st & 2nd Periods** | | | | |
| Thursday, 12/20 | **Semester Exams (Benchmark #3) – 3rd & 4th Periods** | | | | |
| Friday, 12/21 | **Semester Exams (Benchmark #3) – 5th & 6th Periods** | | | | |