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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 TestSyllabusHow many squaresEquation 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 standardStudents 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 problemsKey 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 problemsKey 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 $\sqrt{-12}+\sqrt{36}$ 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.1MCC9-12.CN.3(+) |
| Wednesday, 8/8 | 1-2 Operations with Complex Numbers | Perform Operations with complex numbers | Warm Up: products of radical binomialsKey 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 questionsKey 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.2MCC9-12.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.1MCC9-12.N.CN.2MCC9-12.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.1MCC9-12.N.RN.2 |
| Tuesday, 8/14 | 1-2a Rational and Radical Exponents | Simplify Expressions involving radicals and rational exponents | Warm Up: 2 examplesKey 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.1MCC9-12.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.1MCC9-12.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.1-3MCC9-12.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.1-3MCC9-12.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 $x^{2}+bx+c$ | **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 $ax^{2}+bx+c$ | Warm Up: Discuss with a partner the difference between the two forms of quadratic trinomialsKey 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 $ax^{2}+bx+c$ | Warm Up: 3 Factoring GCF problemsKey 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 problemsKey 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 examplesKey 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.2MCC9-12.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 problemsKey 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.2MCC9-12.A.CED.2 |
| Wednesday, 8/29 | Test Module 2 | Factor Quadratics | **2.1-2.3 Test** | MCC9-12.A.SSE.2MCC9-12.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 graphKey Vocabulary: zero, root* Notes on solving by square root method
* Examples of solving by factoring

Homework: Worksheet on both methods | MCC9-12.F.IF.7aMCC9-12.A.SSE.3aMCC9-12.F.IF.8aMCC9-12.A.SSE.2 |
| Friday, 8/31 | Geometry Review | Circles Focus | Live Binders Circle Unit PacketCircle Problems (Arcs, Angles, Chords, Sectors, etc)2017- extra day to practice solving quads | MCC9-12.G.C.2MCC9-12.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 graphKey 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.7aMCC9-12.A.SSE.3aMCC9-12.F.IF.8aMCC9-12.A.SSE.2 |
| Wednesday, 9/5 | 4-2 Completing the Square | Solve quadratics by completing the square | Warm Up: warm up from TEKey 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.4bMCC9-12.A.SSE.2MCC9-12.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.4bMCC9-12.A.SSE.2MCC9-12.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.7aMCC9-12.A.SSE.3aMCC9-12.F.IF.8aMCC9-12.A.SSE.2MCC9-12.A.REI.4bMCC9-12.A.SSE.2MCC9-12.A.REI.4aMCC9-12.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, 9/10Benchmark #1 – ENGLISH | 4-3 Quadratic Formula | Solve quadratic equations using the quadratic formula | Warm Up: Writing functions in standard formKey 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.4bMCC9-12.N.CN.7 |
| Tuesday, 9/11Benchmark #1 – SCIENCE | Benchmark Review |  | Review for Benchmark 1Students will work in collaborative pairs to complete review assignmentProgress and answers will be monitored throughout class period | All standards up to this date |
| Wednesday, 9/12Benchmark #1 – ELECTIVES | Benchmark Review |  | Review for Benchmark 1Students will work in collaborative pairs to complete review assignmentProgress and answers will be monitored throughout class period. | All standards up to this date |
| Thursday, 9/13Benchmark #1 –MATH | Benchmark #1 |  | **Benchmark #1****(point value = 100 points)** | All standards up to this date |
| Friday, 9/14Benchmark #1 –SOCIAL STUDIES | 4-3 Quadratic Formula | Solve quadratic equations using the quadratic formula | Warm Up: Deriving the quadratic formula from memoryKey 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.4bMCC9-12.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.4bMCC9-12.N.CN.7 |
| Tuesday, 9/18 | Review | Solving quadratics | Review of HomeworkStudents will work in collaborative pairs to complete review assignmentProgress 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 questionsKey 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.10MCC9-12.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 questionsKey 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.10MCC9-12.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 $y=a\left(x-h\right)^{2}+k$ | Warm Up: write a function given transformationsKey Vocabulary: quadratic function, parabola, vertex, vertex form* Review of Homework

Classwork Pg. 70-71 (29-38) | MCC9-12.A.REI.10MCC9-12.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 questionsKey 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.10MCC9-12.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.10MCC9-12.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.8MCC9-12.F.IF.7a |
| Friday, 9/28Early 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 classKey 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.8MCC9-12.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, 10/1Essay – 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 classKey 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.10MCC9-12.F.BF.3MCC9-12.F.IF.8MCC9-12.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 classKey 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.10MCC9-12.F.BF.3MCC9-12.F.IF.8MCC9-12.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.10MCC9-12.F.BF.3MCC9-12.F.IF.8MCC9-12.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.10MCC9-12.F.BF.3MCC9-12.F.IF.8MCC9-12.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.10MCC9-12.F.BF.3MCC9-12.F.IF.8MCC9-12.F.IF.7a |
| Wednesday, 10/10PSATCollege & 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.10MCC9-12.F.BF.3MCC9-12.F.IF.8MCC9-12.F.IF.7a |
| Thursday, 10/11 | Review | Students will show mastery of Module 3 standards | Review of HWStudents will work in collaborative pairs to complete review assignmentProgress 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 HWStudents will work in collaborative pairs to complete review assignmentProgress 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 questionsKey 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 questionsKey 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 | QuizWrite equations and graph circlesUse the equation of a circle to solve problems | Warm Up: Warmup from TEKey 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 reviewKey Vocabulary: vertexReview HomeworkShow 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 ReviewKey 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 reviewKey Vocabulary: vertexReview HomeworkShow 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 reviewKey Vocabulary: vertexReview HomeworkShow 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 ReviewKey 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, 10/30ScienceBenchmark #2 | Benchmark Review |  | Review homeworkReview for Benchmark #2Students will work in collaborative pairs to complete review assignment | All previous standards |
| Wednesday, 10/31EnglishBenchmark #2 | Benchmark Review |  | Review homeworkReview for Benchmark #2Students will work in collaborative pairs to complete review assignment | All previous standards |
| Thursday, 11/1Elective Benchmark #2 | Benchmark Review |  | Review homeworkReview for Benchmark #2Students 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 homeworkReview for the Circles TestStudents 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 QuestionsKey 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.1MCC.MP.4MCC9-12.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 QuestionsKey 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.1MCC.MP.4MCC9-12.G.MG.1 |
| Friday, 11/9 | 6.3 -Experimental Prob & Practice | Find the experimental probability of an event | Warm Up: Geometric Prob & Set QuestionsKey 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.1MCC.MP.4MCC9-12.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.1MCC.MP.4MCC9-12.G.MG.1 |
| Tuesday, 11/13 | Probability QUIZ |  | **QUIZ** | MCC9-12.S.CP.1MCC.MP.4MCC9-12.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 questionsKey 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.2MCC9-12.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 eventsKey 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.6MC9-12.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 bagKey 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.5MCC9-12.S.CP.4MCC9-12.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.5MCC9-12.S.CP.4MCC9-12.S.MD.7(+) |
| Tuesday, 11/27 | 7.3 Compound Events | Find the probability of mutually exclusive and inclusive events | Warm Up: basic card probability problemsKey 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 replacementKey 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.7MCC9-12.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 probabilityHomework: 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.12MGSE9-12.G.CO.13 |
| Tuesday, 12/4 | Construction Project | Construction Project | Construction Project | MGSE9-12.G.CO.12MGSE9-12.G.CO.13 |
| Wednesday, 12/5 | Construction Project | Construction Project | Construction Project | MGSE9-12.G.CO.12MGSE9-12.G.CO.13 |
| Thursday, 12/6 | Construction Project | Construction Project | Construction Project | MGSE9-12.G.CO.12MGSE9-12.G.CO.13 |
| Friday, 12/7 | Construction Project | Construction Project | Construction Project | MGSE9-12.G.CO.12MGSE9-12.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** |