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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS****(CCGPS, GPS, AP)** |
| Week 1 | Thursday, 8/6 | Syllabus | To understand strategies for success and classroom expectations. To review material from ACA the will be covered on the GA Milestone Test | * Go over syllabus
* Textbook Distribution and Preview
* Online Textbook Discussion

Begin Geometry Review | MCC9-12.G.C.2MCC9-12.G.C.4(+)MCC9-12.G.SRT.8MCC9-12.A.CED.1 |
| Friday, 8/7 | Geometry Diagnostic | To determine the skills of our current students in the geometry standard | * Examples from the student assessment book

Homework and Classwork will be assigned and discussed | MCC9-12.G.C.2MCC9-12.G.C.4(+)MCC9-12.G.SRT.8MCC9-12.A.CED.1 |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS****(CCGPS, GPS, AP)** |
| Week 2SLO Pre-TestsThis Week! | Monday, 8/10 | 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
* “I have who has” game
* Preview solving quadratics using imaginary numbers

Homework: Pg. 9-10 (18-25, 46-51) | MCC9-12.N.CN.1 |
| Tuesday, 8/11 | 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
* Venn Diagram that adds complex numbers to the number system
* 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, 58-62, 65, 73) | MCC9-12.N.CN.1MCC9-12.CN.3(+) |
| Wednesday, 8/12 | 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

Homework: Pg. 16-17 (36-39, 46-51, 61-63, 70-74, 85-87, 94-96) | MCC9-12.N.CN.2 |
| Thursday, 8/13 | 1-2 Operations with Complex Numbers | Perform Operations with complex numbers | Warm Up: complex conjugateKey Vocabulary: * Notes and independent practice on multiplying complex numbers
* Notes and collaborative pairs working on dividing complex numbers

Homework: Pg. 17-18 (55-60, 64-69, 89-93, 97-102, 109), Add/Multiply Activate the Brain from summer academy | MCC9-12.N.CN.2MCC9-12.N.CN.3(+) |
| Friday, 8/14 | Quiz on 1-1 & 1-2 | Assessment | Warm Up: Review the answers to Activate the Brain * Go over homework
* **Quiz over complex numbers**
 | MCC9-12.N.CN.1MCC9-12.N.CN.2MCC9-12.N.CN.3(+) |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS****(CCGPS, GPS, AP)** |
| Week 3 | Monday, 8/17 | 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
* Notes on converting between radical and rational form

Homework: Pg. 23 (1-36) | MCC9-12.N.RN.1MCC9-12.N.RN.2 |
| Tuesday, 8/18 | 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 properties of rational exponents
* Notes/examples on simplifying expressions with rational exponents

Homework: Pg. 23 (37-52) | MCC9-12.N.RN.1MCC9-12.N.RN.2 |
| Wednesday, 8/19 | Review | Review topics in extending the numbers system | Warm Up: HW Discussion* Review of Unit 1 material using powerpoint presentation and marker boards

Homework: Study for Test 1 | MCC9-12.N.RN.1-3MCC9-12.N.CN.1-4(+)MCC9-12.A.APR.1 |
| Thursday, 8/20 | Test Module 1 | Assess extending the number system | **1.1-1.4 Test** | MCC9-12.N.RN.1-3MCC9-12.N.CN.1-4(+)MCC9-12.A.APR.1 |
| Friday, 8/21 | 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 (2-50 even) Pg. 41 (51-53) | MCC9-12.A.SSE.2 |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS****(CCGPS, GPS, AP)** |
| Week 4 | Monday, 8/24 | 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: Pg. 48 (2-62 even) Pg. 49 (64, 68, 69) | MCC9-12.A.SSE.2  |
| Tuesday, 8/25 | 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)

Homework: Extra examples (worksheet) and study for quiz | MCC9-12.A.SSE.2 |
| Wednesday, 8/26 | 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 |
| Thursday, 8/27 | 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: Pg. 56-57 (2-42 even) | MCC9-12.A.SSE.2MCC9-12.A.CED.2 |
| Friday, 8/28  | 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
* Marker board challenge with multi- step factoring examples (GCF then factor, Double DOTS, etc)

Homework: Factoring mixed review worksheet |  |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS****(CCGPS, GPS, AP)** |
| Week 5 | Monday, 8/31 | 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 |
| Tuesday, 9/1 | Test Module 2 | Factor Quadratics | **2.1-2.3 Test** | MCC9-12.A.SSE.2MCC9-12.A.CED.2 |
| Wednesday, 9/2Performance EssayEnglish | 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 quadratic roots by looking at graph or table
* Examples of solving by graphing
* Examples of solving by factoring

Homework: Worksheet on graphs/tables and a few factoring | MCC9-12.F.IF.7aMCC9-12.A.SSE.3aMCC9-12.F.IF.8aMCC9-12.A.SSE.2 |
| Thursday, 9/3 | 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 quadratic roots by looking at graph or table
* Examples of solving by graphing
* Examples of solving by factoring

Homework: Worksheet on graphs/tables and a few factoring | MCC9-12.F.IF.7aMCC9-12.A.SSE.3aMCC9-12.F.IF.8aMCC9-12.A.SSE.2 |
| Friday, 9/4Early Release(1st, 2nd, 3rd, 5th) | Geometry Review | Circles Focus | Live Binders Circle Unit PacketCircle Problems (Arcs, Angles, Chords, Sectors, etc) | MCC9-12.G.C.2MCC9-12.G.C.4(+)MCC9-12.G.SRT.8 |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS****(CCGPS, GPS, AP)** |
| Week 6 | Monday, 9/7 | **LABOR DAY HOLIDAY** |
| Tuesday, 9/8 | 4-2 Completing the Square | Solve quadratics by completing the square | Warm Up: warm up from TEKey Vocabulary: zero, root* More examples of solving by factoring
* Notes on writing quadratic functions given the roots

Homework: Pg 101 (21-53 odds) | MCC9-12.A.REI.4bMCC9-12.A.SSE.2MCC9-12.A.REI.4a |
| Wednesday, 9/10 | 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 |
| Thursday, 9/11 | 4-1 and 4-2 Quiz |  | 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 |
| Friday, 9/12 | Geometry Review | Trig Ratio Focus | Cumulative Review problems of those involving trig ratios (sin, cos, tan) in word problem and direct promptsStudents should expect several problems from Spring semester on Benchmark #1. | MCC9-12.G.C.2MCC9-12.G.C.4(+)MCC9-12.G.SRT.8 |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS****(CCGPS, GPS, AP)** |
| Week 7BenchmarkWeek #1 | Monday, 9/14 | Buffer Day | As needed objectives will be covered | Day built in before review of benchmark in case previous days must be moved further down the curriculum calendar |  |
| Tuesday, 9/15 | 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, 9/16ENGLISH | 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, 9/17MATH | Benchmark #1 |  | **Benchmark #1****(point value = 100 points)** | All standards up to this date |
| Friday, 9/18ELECTIVES | 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 |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS****(CCGPS, GPS, AP)** |
| Week 8Benchmark Week #1 | Monday, 9/21SCIENCE | 4-3 Quadratic Formula | Solve quadratic equations using the quadratic formula | Warm Up: Deriving the quadratic formula from memoryKey Vocabulary: discriminant* Review homework
* Notes on discriminant and types of zeros
* Real world application (avation example)
* Summary: chart on when to use each of the 5 methods)

Homework: Pg 117 -118 (30-35, 45-53) | MCC9-12.A.REI.4bMCC9-12.N.CN.7 |
| Tuesday, 9/22SOCIAL STUDIES | Review |  | 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, 9/23 | Test Module 4 |  | **Test Module 4** | All Module 4 standards |
| Thursday, 9/24 | 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, 9/25 | 4-1 Solving quadratic functions by graphing and factoring | 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 |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS****(CCGPS, GPS, AP)** |
| Week 9 | Monday, 9/28 | 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 |
| Tuesday, 9/29 | 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 |
| Wednesday, 9/30Performance EssayMath |  |  | **Math Performance Essay** |  |
| Thursday, 10/1 | Review 3-1 & 3-2 | Ensure student understanding of graphing quadratics from any form | Warm Up: Summer training parabola activating strategy* Review of Benchmark (successes/failures)
* Powerpoint/marker board mixed review of graphing quadratics (3.1-3.2)

Homework: Worksheet | MCC9-12.A.REI.10MCC9-12.F.BF.3MCC9-12.F.IF.8MCC9-12.F.IF.7a |
| Friday, 10/2 | 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  |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS****(CCGPS, GPS, AP)** |
| Week 10 | Monday, 10/5 | 3-3 Curve Fitting with Quadratic Models | Use quadratic functions to model dataUse quadratic models to analyze and predict | Warm Up: Warm up from TEKey Vocabulary: quadratic model, quadratic regression* Examples for students on how to identify quadratic data vs other data in a given table
* Using same examples, notes on how to write quadratic functions using such data

Homework: Pg. 87-88 (12-18) | MCC9-12.F.IF.4MCC9-12.A.CED.2MCC9-12.S.ID.6a  |
| Tuesday, 10/6 | 3-3 Curve Fitting with Quadratic Models | Use quadratic functions to model dataUse quadratic models to analyze and predict | * Continue examination of quadratic models
* Examples of word problems using quadratic models

Classwork/Homework: Pg. 89 (29-37) | MCC9-12.F.IF.4MCC9-12.A.CED.2MCC9-12.S.ID.6a |
| Wednesday, 10/7Performance EssaySocial Studies | Buffer Day to Review 3-1 through 3-3 | Students will work in small groups to review graphing quadratics | Make sure topics are covered such as converting between standard and vertex form\*\*\*These days can also be used as GA Milestone Review | All Module 3 standards |
| Thursday, 10/8 | Buffer Day to Review 3-1 through 3-3 | Students will work in small groups to review graphing quadratics | \*\*\*These days can also be used as GA Milestone Review | All Module 4.3standards |
| Friday, 10/9 | **FACULTY AND STAFF PROFESSIONAL LEARNING DAY / STUDENT HOLIDAY** |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS****(CCGPS, GPS, AP)** |
| Week 11 | Monday, 10/12 | **FALL HOLIDAY!** |
| Tuesday, 10/13 | 4-4 Nonlinear Systems | Solve systems with linear and quadratics equations | Warm Up: Linear system by graphingKey Vocabulary: nonlinear system of equations* Students explore and develop solutions independently through graphing
* Notes on solving by substitution
* Independent practice
* Summary: How do you determine which method is best to use?

Homework: Pg 124-126 (10-17, 26, 27, 41, 42, 43) | MCC9-12.A.REI.7 |
| Wednesday, 10/14PSATASVABCollege Fair | 4-4 Nonlinear Systems | Solve systems with linear and quadratics equations | Warm Up: Warmup from TEKey Vocabulary: nonlinear system of equations* Review homework
* More examples on substitution

Classwork/Homework: Worksheet on graphing/substitution | MCC9-12.A.REI.7 |
| Thursday, 10/15Early ReleaseProfessionalLearning(1st, 2nd, 3rd, 5th) | 4-4 Nonlinear Systems | Solve systems with linear and quadratics equations | Warm Up: linear system by eliminationKey Vocabulary: nonlinear system of equations* Review of HW
* Notes on elimination- showing both real and complex solutions
* Independent practice
* Physics real world application (elevator problem)
* Summary: Ask students to graph what a linear/quad system looks like with no solution, one solution, two solutions

Homework: Pg. 124-126 (18-23, 37, 46, 50) | MCC9-12.A.REI.7 |
| Friday, 10/16Early ReleaseHomecoming(7th, 6th, 4th, 5th) | 4-4 Nonlinear Systems | Solve systems with linear and quadratics equations | Warm Up: linear system by eliminationKey Vocabulary: nonlinear system of equations* Review of HW
* Notes on elimination- showing both real and complex solutions
* Independent practice
* Physics real world application (elevator problem)
* Summary: Ask students to graph what a linear/quad system looks like with no solution, one solution, two solutions

Homework: Pg. 124-126 (18-23, 37, 46, 50) | MCC9-12.A.REI.7 |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS****(CCGPS, GPS, AP)** |
| Week 12 | Monday, 10/19 | 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 |
| Tuesday, 10/20 | Test Module 3 | Students will show mastery of Module 3 standards | **Module 3 Test** | All Module 3 standards |
| Wednesday, 10/21 | 5-1 Introduction to Coordinate Proof | Position figures in the coordinate plane for use in coordinate proofsProve geometric concepts by using coordinate proofs | Warm Up: midpoint and distance questionsKey Vocabulary: coordinate proof* Notes on positioning figures in the coordinate plane
* Review formulas needed in proofs
* Using example 2, ask students to determine what formulas, information is needed to prove area of triangles
* Show students how to assign coordinates to vertices of figures

Homework: pg. 141 (8-14) | MCC9-12.G.GPE.4MCC9-12.G.GPE.7 |
| Thursday, 10/22 | 5-1 Introduction to Coordinate Proof | Position figures in the coordinate plane for use in coordinate proofsProve geometric concepts by using coordinate proofs | Warm Up: find leg of triangle given other leg and hypotenuseKey Vocabulary: coordinate proof* Review of homework
* Students work in groups on varied coordinate proof problems

Homework: complete proof worksheet | MCC9-12.G.GPE.4MCC9-12.G.GPE.7 |
| Friday, 10/23 | 5-2 Circles in the coordinate plane | Write equations and graph circlesUse the equation of a circle to solve problems | Warm Up: distance formula problemKey Vocabulary: center* Collect proof problems
* Writing equations of circles given center and radius, center and point
* Notes on graphing circles
* Meteorology application

Summary: Ask students to graph what a 2 circle system looks like with no solution, one solution, two solutions. Homework: pg. 147-149 (11-13, 14-16,19, 21, 23-28, 30, 33, 38, 39) | MCC9-12.G.GPE.1 |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS****(CCGPS, GPS, AP)** |
| Week 13 | Monday, 10/26 | 5-2 Circles in the coordinate plane | Write equations and graph circlesUse the equation of a circle to solve problems | Warm Up: Warmup from TEKey Vocabulary: center* Review HW
* Small Group Practice

Homework/Classwork: Worksheet packet | MCC9-12.G.GPE.1 |
| Tuesday, 10/27 | Quiz 5-1 & 5-2 | Assess student understanding of coordinate proofs and circles | Warm Up: EOCT prep questions* Review homework
* **Quiz over 5.1 & 5.2**

Homework: EOCT triangle trig. questions | MCC9-12.G.GPE.1MCC9-12.G.GPE.4MCC9-12.G.GPE.7 |
| Wednesday, 10/28Performance EssayScience | 5-3 Parabolas (writing equations) | Write the standard equation of a parabola and its axis of symmetry | Warm Up: Given $\frac{1}{4p}=c$, evaluate different values of cKey Vocabulary: conic, focus, directrix* Demonstration of what conics are using cones
* Draw a label parts of parabola
* Notes on using distance formula to write equation of parabola
* Notes on using diagram to write the equation of a parabola

Summary: Discussion on where parabolas are found in the real world Homework: pg. 155-156 (14-24, 27-34) | MCC9-12.G.GPE.2 |
| Thursday, 10/29 | 5-3 Parabolas (graphing where vertex is origin) | Graph a parabola, and identify its focus, directrix, and axis of symmetry | Warm Up: Draw the 4 ways a parabola can openKey Vocabulary: conic, focus, directrix* Review homework
* Create chart of equation, direction, focus, directrix, graph
* Notes on graphing where vertex is at the origin

Homework: Study rules of parabola with vertex (h, k) worksheet on graphing parabolas | MCC9-12.A.SSE.1a |
| Friday, 10/30 | 5-3 Parabolas (graphing where vertex is shifted) | Graph a parabola, and identify its focus, directrix, and axis of symmetry | Warm Up: multiple choice question on graph of shifted parabolaKey Vocabulary: conic, focus, directrix* Review homework
* Create chart of equation, direction, focus, directrix, graph (vertex shifted)
* Notes on graphing where vertex is not the origin

Homework: pg. 157 (38-41) | MCC9-12.A.SSE.1a |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS****(CCGPS, GPS, AP)** |
| Week 14BenchmarkWeek #2 | Monday, 11/2 | Review | Review major concepts of coordinate proofs, circles, and parabolas | * Students will be divided into groups and given different topics to review
* Each group will present to the class the major points and provide examples

Homework: Study for test | MCC9-12.G.GPE.1MCC9-12.G.GPE.4MCC9-12.G.GPE.7MCC9-12.G.GPE.2MCC9-12.A.SSE.1a |
| Tuesday, 11/3 | Test Module 5 | Assess student understanding of coordinate proofs, circles, and parabolas | **TEST Module 5** | MCC9-12.G.GPE.1MCC9-12.G.GPE.4MCC9-12.G.GPE.7MCC9-12.G.GPE.2MCC9-12.A.SSE.1a |
| Wednesday, 11/4SCIENCE | Geometry Review | Students will review triangle similarity and congruence | Warmup: Review of Geometry Topics Previously Covered* Graphic organizer on similarity and congruence shortcuts

Students will work in collaborative pairs to do matching acitivity |  |
| Thursday, 11/5SOCIAL STUDIES | Geometry Review | Students will review quadrilaterals & polygons | Warmup: Review of Geometry Topics Previously Covered* Graphic organizer on quadrilaterals & polygons

Students will work in collaborative pairs to do matching acitivity |  |
| Friday, 11/6ELECTIVES | Benchmark Review |  | Review homeworkReview for Benchmark #2Students will work in collaborative pairs to complete review assignment | All previous standards |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS****(CCGPS, GPS, AP)** |
| Week 15Benchmark Week #2 | Monday, 11/9ENGLISH | Benchmark Review |  | Review homeworkReview for Benchmark #2Students will work in collaborative pairs to complete review assignment | All previous standards |
| Tuesday, 11/10MATH | Benchmark #2 |  | **Benchmark #2****(Point Value = 200 pts)** | All previous standards |
| Wednesday, 11/11 | 6-1 Geometric Probability | Calculate geometric probabilities using length and angle measures | Warm Up: basic probability preview questionsKey Vocabulary: geometric probability* Begin organizer on three models of geometric probability
* Notes and independent practice on probability using length and angle measures
* Use skills to apply real world application- teach students how to draw diagram from word problems

Homework: pg. 597-599 (16-26, 31, 39-41) | MCC9-12.S.CP.1MCC.MP.4MCC9-12.G.MG.1 |
| Thursday, 11/12 | 6-1 Geometric Probability | Calculate geometric probabilities using area | Warm Up: find area of square and trapezoidKey Vocabulary: geometric probability* Review homework
* Complete organizer on three models of geometric probability
* Notes and independent practice on probability using area
* Classwork/Homework: pg. 597-599 (27-30, 32-37)

Homework: pg. 597-599 (27-30, 32-37) | MCC9-12.S.CP.1MCC.MP.4MCC9-12.G.MG.1 |
| Friday, 11/13 | 6.2 Combinations and Permutations | Solve problems involving the Fundamental Counting PrincipalSolve problems involving permutations and combinations | Warm Up: Evaluate products of numbers that count down to 1Key Vocabulary: Fundamental Counting principal, permutation, factorial, combination* Review homework
* Notes on fundamental counting principal
* Go through several examples of this concept
* Make organizer to compare permutations and combinations (emphasize that order is important in permutations)
* Notes on permutation examples
* Summary: Ask students to think of an example where order is not important

Homework: pg. 606-608 (9-13, 27, 31) | MCC9-12.S.CP.9(+) |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS****(CCGPS, GPS, AP)** |
| Week 16 | Monday, 11/16 | 6.2 Combinations and Permutations | Solve problems involving the Fundamental Counting PrincipalSolve problems involving permutations and combinations | Warm Up: EOCT multiple choice question on probabilityKey Vocabulary: Fundamental Counting principal, permutation, factorial, combination* Review homework
* Complete organizer (add combinations)
* Notes, examples, and real world applications that use combinations
* Students work in small groups with mixed combinations and permutation problems

Homework: pg. 606-608 (14-15, 16-23, 28, 29, 36 ) | MCC9-12.S.CP.9(+) |
| Tuesday, 11/17 | 6.3 Theoretical and Experimental Probability | Find the theoretical probability of an event | Warm Up: Write fractions as percentsKey Vocabulary: probability, outcome, sample space, events* Review homework
* Teach the difference between theoretical and experimental probability
* Notes on finding theoretical probability
* Notes on probability involving permutations and combinations
* Classwork: worksheet - mixed practice
* Summary: What types of careers would use probability on a regular basis?

Homework: pg. 615-617 (14-18) (19-20, 25, 26, 36-40) | MCC9-12.S.CP.1MCC9-12.S.CP.9(+) |
| Wednesday, 11/18Performance EssayElectives | 6-3 Theoretical and Experimental Probability | Find the theoretical probability of an event | Warm Up: Warmup from TEKey Vocabulary: probability, outcome, sample space, events* Review homework
* Class activity reviewing experimental probability
* Start with class in pairs and toss a quarter 10 times, record results. Join pairs, then join again…showing the concept of experimental results coming closer to theoretical with a larger sample size

Homework: Worksheet | MCC9-12.S.CP.1MCC9-12.S.CP.9(+) |
| Thursday, 11/19 | Review | Review probability concepts | Warm Up: review homework* Students will travel to different stations in small groups working through mixed probability questions

Homework: Study for test | MCC9-12.S.CP.1MCC.MP.4MCC9-12.G.MG.1MCC9-12.S.CP.9(+) |
| Friday, 11/20 | Test Module 6 | Assess student understanding of probability | **6.1-6.3 Test** | MCC9-12.S.CP.1MCC.MP.4MCC9-12.G.MG.1MCC9-12.S.CP.9(+) |
| **THANKSGIVING BREAK!****11/23 🡪 11/27** |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS****(CCGPS, GPS, AP)** |
| Week 17 | Monday, 11/30 | 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 |
| Tuesday, 12/1 | 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(+) |
| Wednesday, 12/2 | 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(+) |
| Thursday, 12/3 | 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(+) |
| Friday, 12/4 | 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 |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS****(CCGPS, GPS, AP)** |
| Week 18 | Monday, 12/7 | 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(+) |
| Tuesday, 12/8 | Review  | Review conditional probability problems | Warm Up: multiple choice questions from EOCT (last years review)Review game on conditional probabilityHomework: Study for test | MCC9-12.S.CP.2MCC9-12.S.CP.3MCC9-12.S.CP.6MC9-12.S.CP.8(+)MCC9-12.S.ID.5MCC9-12.S.CP.4MCC9-12.S.MD.7(+)MCC9-12.S.CP.1MCC9-12.S.CP.7MCC9-12.S.CP.9(+) |
| Wednesday, 12/9 | Test Module 7 | Assess student understanding of conditional probability | **Test Module 7** | MCC9-12.S.CP.2MCC9-12.S.CP.3MCC9-12.S.CP.6MC9-12.S.CP.8(+)MCC9-12.S.ID.5MCC9-12.S.CP.4MCC9-12.S.MD.7(+)MCC9-12.S.CP.1MCC9-12.S.CP.7MCC9-12.S.CP.9(+) |
| Thursday, 12/10 | Milestone Review |  | Students will work on review material for the GA Milestone Exam | All Analytic Geometry Standards |
| Friday, 12/11 | Milestone Review |  | Students will work on review material for the GA Milestone Exam | All Analytic Geometry Standards |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS****(CCGPS, GPS, AP)** |
| Week 19Benchmark Week #3 | Monday, 12/14 | Milestone Review |  | Students will work on review material for the GA Milestone Exam | All Analytic Geometry Standards |
| Tuesday, 12/15 | **Semester Exams (Benchmark #3) – 7th Period** |
| Wednesday, 12/16 | **Semester Exams (Benchmark #3) – 1st & 2nd Periods** |
| Thursday, 12/17 | **Semester Exams (Benchmark #3) – 3rd & 4th Periods** |
| Friday, 12/18 | **Semester Exams (Benchmark #3) – 5th & 6th Periods** |

**End 1st Semester**

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS****(CCGPS, GPS, AP)** |
| Week 1 | Monday, 1/4 | **FACULTY AND STAFF PROFESSIONAL LEARNING DAY / STUDENT HOLIDAY** |
| Tuesday, 1/5 |  |  |  |  |
| Wednesday, 1/6 |  |  |  |  |
| Thursday, 1/7 |  |  |  |  |
| Friday, 1/8 |  |  |  |  |

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

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

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

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

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

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

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS****(CCGPS, GPS, AP)** |
| Week 8 | Monday, 2/22 |  |  |  |  |
| Tuesday, 2/23 |  |  |  |  |
| Wednesday, 2/24Performance EssayMath |  |  |  |  |
| Thursday, 2/25 |  |  |  |  |
| Friday, 2/26 |  |  |  |  |

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

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

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS****(CCGPS, GPS, AP)** |
| Week 11 | Monday, 3/14 | FACULTY AND STAFF PROFESSIONAL LEARNING DAY / STUDENT HOLIDAY |
| Tuesday, 3/15 |  |  |  |  |
| Wednesday, 3/16Performance EssayScience |  |  |  |  |
| Thursday, 3/17Early ReleaseProfessionalLearning(1st, 2nd, 3rd, 5th) |  |  |  |  |
| Friday, 3/18Early ReleaseProfessionalLearning (7th, 6th, 4th, 5th) |  |  |  |  |

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

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS****(CCGPS, GPS, AP)** |
| Week 13 | Monday, 3/28 |  |  |  |  |
| Tuesday, 3/29 |  |  |  |  |
| Wednesday, 3/30Performance EssayElectives |  |  |  |  |
| Thursday, 3/31 |  |  |  |  |
| **SPRING BREAK!****Friday, 4/1 🡪 Friday, 4/8** |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS****(CCGPS, GPS, AP)** |
| Week 14Benchmark Week #2 | Monday, 4/11 |  |  |  |  |
| Tuesday, 4/12 |  |  |  |  |
| Wednesday, 4/13SCIENCE |  |  |  |  |
| Thursday, 4/14SOCIAL STUDIES |  |  |  |  |
| Friday, 4/15ELECTIVES |  |  |  |  |

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

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

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS****(CCGPS, GPS, AP)** |
| Week 17 | Monday, 5/2 |  |  |  |  |
| Tuesday, 5/3 |  |  |  |  |
| Wednesday, 5/4 |  |  |  |  |
| Thursday, 5/5 |  |  |  |  |
| Friday, 5/6 |  |  |  |  |
| AP ExamsMonday, 5/2 – AP Chem, AP Enviro Science, and AP PsychTuesday, 5/3 – AP Spanish LanguageWednesdays, 5/4 – AP English LiteratureThursday, 5/5 – AP CalculusFriday, 5/6 – AP US History, AP Studio Art  | MilestonesTo be determined. |

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| **WEEK** | **DAY** | **CONCEPT** | **OBJECTIVES** | **INSTRUCTIONAL STRATEGIES** | **STANDARDS****(CCGPS, GPS, AP)** |
| Week 18 | Monday, 5/9 |  |  |  |  |
| Tuesday, 5/10 |  |  |  |  |
| Wednesday, 5/11 |  |  |  |  |
| Thursday, 5/12 |  |  |  |  |
| Friday, 5/13 |  |  |  |  |
| AP ExamsMonday, May 9 – AP Biology and AP Music TheoryTuesday, May 10 – AP Government Wednesday, May 11– AP English Language and AP MacroeconomicsThursday, May 12 – AP World History and AP StatisticsFriday, May 13 – AP Human Geography | MilestonesTo be determined. |

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

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