Geometry Curriculum Map 167 Days (2024-2025) Tracie Campbell

| Unit/ School Days/ Month | Standard/Learning Target | Program Materials/Resources | Vocabulary | Assessment |
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| ***Introduction to Class*** ***~2 Days*** ****September*** | N/A | Syllabus, Classroom Expectations, Intro to Class | N/A | Expectations Quiz |
| ***"Beginning Concepts"*** ***~12 Days*** ****September*** | G-CO.1, G-CO.12, G-CO.9, G-CO.10 | Unit #1 Emathinstruction Curriculum ONLY Lessons 1-9 including notes, homework sheets, extra materials, and other teacher made materials | points, lines, rays, angles, vertical, obtuse, acute, right, complementary, supplementary, parallel, corresponding, alternate, interior, exterior, perpendicular, segments, proofs | Exit Tickets, Formative Assessments, Test |
| ***"Transformations"*** ***~6 Days*** ****September/ October*** | G-CO.2, G-CO.5, G-CO.3 | Unit #9 "All Things Geometry" Curriculum ONLY Days 1-4,6-7 and other teacher made materials | transformation, reflection, line of reflection, x-axis, y-axis, translation, horizontal, vertical, rotation, center of rotation, clockwise, counterclockwise, symmetry, line symmetry, point symmetry, rotational symmetry, dilations, scale factor | Exit Tickets, Formative Assessments, Test |
| ***"Rigid Motion & Congruence"*** ***~12 Days*** ****October*** | G-CO.2, G-CO.4, G-CO.5, G-CO.6, G-CO.7, G-CO.3 | Unit #2 Emathinstruction Curriculum ONLY Lessons 1-9 including notes, homework sheets, extra materials, and other teacher made materials | transformations, rigid motions, coordinates, isosceles, rotations, reflections, translations, congruent, symmetry, regular polygon | Exit Tickets, Formative Assessments, Test |
| ***"Parallel & Perpendicular Lines"*** ***~10 Days*** ****October/ November*** | G-CO.1, G-CO.4, G-GPE.5 | Unit #3 "All Things Geometry" Curriculum FULL and other teacher made materials | parallel lines, parallel planes, angles, corresponding, alternate, interior, exterior, consecutive, perpendicular, vertical, segments, converse, supplementary, slope, negative reciprocal, equation, slope-intercept, point-slope, vertical line, horizontal line | Exit Tickets, Formative Assessments, Test |
| ***"Coordinate Geometry"*** ***~10 Days*** ****November/December*** | G-GPE.4, G-GPE.5, G-SRT.8, G-CO.5, G-GPE.7 | Unit #5 Emathinstruction Curriculum ONLY Lessons 1-8 including notes, homework | Slope, parallel lines, perpendicular, average rate of change, equations, slope- | Exit Tickets, Formative Assessments, |

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| | | sheets, extra materials, and other teacher made materials | intercept form, point-slope form, horizontal, vertical, Pythagorean theorem, distance, midpoint | Coordinate Project, Test |
| ***"Relationships in Triangles"*** ***~10 Days*** ****December*** | G-CO.1, G-CO.10, G-GPE.5 | Unit #5 "All Things Geometry" Curriculum and other teacher made materials (combine day 8/9) | midsegments, perpendicular, bisector, angle bisector, medians, altitudes, centroid, orthocenter, incenter, circumcenter, centroid, triangle inequality | Exit Tickets, Formative Assessments, Test |
| ***"Congruent Triangles"*** ***~12 Days*** ****January*** | G-CO.8, G-CO.6, G.CO.7, G-CO.9, G-CO.10, G.SRT.5 | Unit #4 "All Things Geometry" Curriculum FULL and other teacher made materials | Isosceles, equilateral, congruent, proof, theorem, statement, reason, congruence, SAS, ASA, SSS, AAS, HL, CPCTC, parallel lines | Exit Tickets, Formative Assessments, Test |
| ***"Polygons & Quadrilaterals"*** ***~10 Days*** ****January/ February*** | G-CO.11, G-CO.3 | Unit #7 "All Things Geometry" Curriculum ONLY Days 2-8,10-11 and Unit #6 Emathinstruction Curriculum ONLY Lesson 10 and other teacher made materials | trapezoids, parallelograms, rectangles, rhombus, square, quadrilateral, symmetries | Exit Tickets, Formative Assessments, Test |
| ***"Scale Drawings & Dilations"*** ***~8 Days*** ****February*** | G-CO.2, G-SRT.1, G-SRT.2, G-SRT.3, G-SRT.5 | Unit #7 "Frontier Geometry," homework sheets, and other teacher made materials | Ratios, proportions, dilations, similar, congruent, proportional, scale factor, AA for similarity, SAS for similarity, SSS for similarity, | Exit Tickets, Formative Assessments, Test |
| ***"Similar Triangles"*** ***~8 Days*** ****February/ March*** | | Unit #6 "All Things Geometry" Curriculum and other teacher made materials | | |
| ***"Similar Triangles & Other Applications"*** ***~6 Days*** ****March*** | G-SRT.4, G-SRT.5, G-GPE.6 | Extra teacher made and web materials, and homework sheets | side splitter theorem, partition line segments, medians, similar triangles, altitude splitting right triangles | Formative Assessments, Quiz/ Test |

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| ***"Right Triangle Trigonometry"*** ***~12 Days*** ****March*** | G-SRT.6, G-SRT.7, G-SRT.8, G-SRT.9 | Unit #8 "All Things Geometry" Curriculum FULL and other teacher made materials *(emphasize sine and cosine of complementary angles AND general* $A = 1/2\ ab \sin C$ *AND special triangles)* | Pythagorean theorem, right triangle, trigonometry, ratios, sine, cosine, tangent, inverse operations, complementary | Exit Tickets, Formative Assessments, Project/ Activity, Test |
| ***"Circle Geometry"*** ***~13 Days*** ****March/ April*** | G-C.2, G-GPE.1, G-CO.12, G-GPE.5 | Unit #10 "All Things Geometry" Curriculum FULL and Unit #9 Emathinstruction Curriculum ONLY Lesson 10 and other teacher made materials *(emphasize completing the square for circle equations AND determining equations of tangents)* | circle, inscribed angle, central angle, chord, arc, tangent, secant, circle equation, standard form, completing the square | Exit Tickets, Formative Assessments, Test |
| ***"Geometric Measurement and Modeling"*** ***~14 Days*** **** April/May*** | G-GPE.7, G-MG.2, G-MG.3, G-MG.1, G-GMD.1, G-GMD.4, G-GMD.3, G-C.1, G-C.5, G-SRT.9, | Unit #10 Emathinstruction Curriculum FULL including notes, homework sheets, extra materials, and other teacher made materials *(emphasize determining arc length and area of a sector of a circle)* | perimeter, circumference, area, arc length, sector area, cross sections, volume, pyramids, cones, cylinders, prisms, spheres, truncated cone | Exit Tickets, Formative Assessments, Project/ Activity, Test |
| ***"Constructions Packet"*** ***~15 Days*** ****May/ June*** | G-CO.1, G-CO.12, G-CO.13, G-CO.10 | Custom "Constructions" Unit Packet, homework sheets, and other teacher made materials *(construct tangent, translate, reflect, rotate)* | constructions, circle, arc, parallel, perpendicular, circumcenter, incenter, orthocenter, centroid, circumscribed, inscribed, bisect, equilateral triangle, hexagon, tangent, translate, reflect, rotate | Exit Tickets, Formative Assessments, Test |

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| ***End of Year Review*** <br> ***~7 Days*** <br> **** June*** | Review all content in preparation for Regents Exam covering all NYS Standards | Past Regents Exams and Teacher Created Review Material | All previous content and vocabulary will be addressed | Formative Assessments, June Regents Exam |

***Writing emphasis is sprinkled into daily plans within daily "Spiral Reviews" and lessons though out the year.**