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| 6/10 AM 3 | 6/11 AM 3 | 6/12 AM 3 | 6/13 AM 3 | 6/14 AM 3 |
| Ch.1  Introductions  1.1 Point/Line/Plane, given a diagram describe it, given a description, draw it.  1.2 Seg. Add. Post., addition and subtraction, algebra, CSE(copy seg.)  1.3 Distance/MP formula, MP prop. | Ch.1  Review  1.5 Angle Add. Post, adjacent and overlapping angles, algebra, CSE(copy angle) CSE(bisect angle), use protractor to draw diagrams.  **GeoCache Activity**  1.6 Comp/Supp angles, linear/vertical | Ch.2  2.1 Conditionals, 4 forms, biconditional statements, truth tables\*  2.2 Counter-examples, Law of Detachment, Law of Syllogism | Ch.2  Review  2.6 More proofs with geometric objects: linear pairs, vertical angles. Bridge building proofs, substitution proofs. | Ch.3  3.1 Transversal angle relationships, identify them  3.2 Parallel angle relationships, solve for missing angles, algebra, switching transversals |
| 6/10 PM 3.5 | 6/11 PM 3.5 | 6/12 PM 3.5 | 6/13 PM 3.5 | 6/14 PM 3.5 |
| Ch.1  1.3 Distance/MP formula, MP prop  1.4 Perim/Area on CP  1.5 Angle Add. Post/CSE(copy angle) CSE(bisect angle), use protractor | Ch.1  Review / Project  Exam 1  BEST PPT  1.2 / 1.3 / 1.5 | Ch.2  2.4 Algebraic properties/proofs: distributive, substitution, reflexive, symmetric, transitive.  2.5 Geometric proofs using segment addition and angle addition | Ch.2  Review / Project  Exam 2  BEST PPT  2.1 / 2.2 / 2.6 | Ch.3  3.3 Converse parallel angle relationships, is there enough here to prove the lines are parallel? CSE(parallel lines)  3.4 Perpendicular lines, calculate shortest distance from point to line( w/ given coordinates), CSE(perp. Bisector, perp through point)  3.5 Equations of parallel lines |
| 6/17 AM 3 | 6/18 AM 3 | 6/19 AM | 6/20 AM 3 | 6/21 AM 3 |
| Ch.3  3.5 Equations of parallel and perpendicular lines through a given point, graphically, analytically. Shortest distance from a point to a line, no info given. | Ch.4  4.1 Translations on the coordinate plane, vector, and function notation, composing translations, CSE (translations)  4.2 Reflections on the coordinate plane, reflection rules, symmetry, glide reflections, CSE (reflections) | No Class  Juneteenth | Ch.4  Review  4.5 Dilations on the coordinate plane, scale factor multiplication, CSE (dilations), negative scale factors, using SF to find unknown dimensions.  4.6 Similarity transformations, composing isometries and dilations to prove two are similar. | Ch.5  5.1 Classifying triangles by angle/side, interior/ext. angle thm.  5.2 Congruent polygons, identifying corresponding parts, using corresponding parts to solve for unknown sides/angles  5.3 SAS congruence |
| 6/17 PM 3.5 | 6/18 PM 3.5 | 6/19 PM | 6/20 PM 3.5 | 6/21 PM 3.5 |
| Ch.3  Review / Project  Exam 3  BEST PPT  3.1 / 3.4 / 3.5 | Ch.4  4.3 Rotations on the coordinate plane, rotation rules, CSE (rotations w/ protractor), Symmetry  4.4 Composing multiple transformations to prove two figures are congruent, isometry rules: 1 = 3Ref, 2any = 1  **Tracing Paper Match Stamp Activity** | No Class  Juneteenth | Ch.4  Review / Project  Exam 4  BEST PPT  4.1, 4.2, 4.5 | Ch.5  5.3 SAS congruence, CSE (copy triangle using SAS), using angle relationships, parallel lines, circles, etc.  5.4 Properties of Isosceles and equilateral triangles, solve for unknown sides/angles, algebra, CSE(isosceles/equilateral triangles)  5.5 Proving triangles congruent using SSS |

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| 6/24 AM 3 | 6/25 AM 3 | 6/26 AM 3 | 6/27 AM 3 | 6/28 AM 3 |
| Ch.5  Review  5.5 Proving triangles congruent using SSS, CSE(copy triangle using SSS), HL theorem for right triangles.  5.6 Proving triangles congruent using ASA and AAS, CSE(copy triangle with ASA), putting it all together, which thm should we use?  5.7 CPCTC, proving properties of quads with CPCTC | Ch.6  6.1 Properties of perp./angle bisectors (2/3 rule), graphing/equations of perp. bisectors.  6.2 Circumcenter, properties, (CSE Circumcenter), properties of Incenter (CSE Incenter) | Ch.6  Review  6.5 Proof by contradiction, Triangle Inequality Theorem, Longer side/angle theorem  6.6 Hinge Theorem, the flexible SAS | Ch.7  7.1 Polygon interior angle sum theorem, exterior angle sum theorem, convex vs concave polygons  7.2 The 5 properties of a parallelogram, algebra, proofs involving, graphing parallelograms | Ch.7  7.5 Properties of trapezoids and kites, isosceles trapezoids, graphing figures, finding missing points, midsegments of trapezoids, classification chart for all quads  7.5 Alternate classification charts\* (British system) |
| 6/24 PM 3.75 | 6/25 PM 3.75 | 6/26 PM 3.75 | 6/27 PM 3.75 | 6/28 PM 3.75 |
| Ch.5  5.8 Coordinate Proofs, distance and midpoint with algebraic coordinates.  Review / Project  Exam 5  BEST PPT  5.2 / 5.4 / 5.8 | Ch.6  6.3 Properties of the centroid, medians, 2/3 rule, (CSE Centroid), Properties of Orthocenter, (CSE Orthocenter)  6.4 Midsegments (parallel/half), midsegment triangle (area/per.) | Ch.6  Review / Project  (Pick a new center, research it, construct it, make a poster about it.)  Exam 6  BEST PPT  6.1 / 6.3 / 6.4 | Ch.7  7.3 The 6 converse parallelogram theorems, proving a figure is a parallelogram (on the coordinate plane)  7.4 Properties of rhombi, rectangles, squares. (CSE construct each using diagonal properties), solve for unknown sides/angles | Ch.7  Review / Project  Exam 7  BEST PPT  7.1 / 7.2 / 7.4 |
| 7/1 AM 3 | 7/2 AM 3 | 7/3 AM 3 | 7/4 AM | 7/5 AM |
| Ch. 8  8.1 Using scale factors and proportions to solve for unknown sides in similar polygons, SF of perimeters, SF of areas  8.2 Prove two triangles are similar by AA, using vertical/parallel angle relationships/reflexive prop.  8.3 Prove two triangles are similar by SSS, SAS | Ch. 9  9.1 Pythagorean theorem, solving with, Pythagorean triples, simplifying radicals, classifying triangles w/ Pyth. Thm.  9.2 Special right triangles, 306090, 454590, Wheel of SRT problems  9.3 Geometric Mean, (CSE GM vs AM) | Ch. 9  Review  9.6 Inverse Trigonometric ratios, solving for all missing values of a triangle  9.7 Law of Sine/Cosine, finding the area of triangle using Sine (SAS), Law of Tangents\* | No Class | No Class |
| 7/1 PM 3.75 | 7/2 PM 3.75 | 7/3 PM 3.75 | 7/4 PM | 7/5 PM |
| Ch. 8  8.4 Proportionality theorems: side-splitter, angle bisector. CSE(Cutting a segment into given ratio)  Review  Exam 8  BEST PPT  8.1A / 8.1B / 8.4 | Ch. 9  9.4 Tangent Ratio, indirect measurement  9.5 Sine/Cosine ratio, angle of elevation/depression, Stacked Triangle WS  9.6 Inverse Trigonometric ratios, solving for all missing values of a triangle | Ch. 9  Review / Project  Exam 9  BEST PPT  9.1 / 9.4 / 9.5 | No Class | No Class |

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| 7/8 AM 3 | 7/9 AM 3 | 7/10 AM 3 | 7/11 AM 3 | 7/12 AM |
| Ch. 10  10.1 Special segments of a circle, common tangents, tangent to radius thm, cong. Tangents thm, (CSE tangent segment), Bike Chain Problem, Polygon w/ inscribed circle.  10.2 Arcs and angle (central only), equal division circles | Ch. 10  Review  10.6 Length of segments formed by intersecting chords/secants/tangents.  10.7 Graphing circles, switching forms, classifying points and interior/exterior, | Ch. 11  11.1 Arc length, rotations to distance traveled, radian measures, Eratosthenes experiment, Unicycle WS, red line arc problems  11.2 Sector area, area of irregular shapes  11.3 Areas of Kites/Rhombi, Areas of regular polygons, using trig. | Ch. 11  Review  11.8 Volume of spheres, demo the 1.5 sphere to cylinder rule  Dipstick in Oil Drum Problem  Exam 11  BEST PPT  11.1A / 11.3 / 11.7 | No Class  Campus Visit |
| 7/8 PM 3.75 | 7/9 PM 3.75 | 7/10 PM 3.75 | 7/11 PM | 7/12 PM |
| Ch. 10  10.3 Cong. Chords = cong. Arcs, 2/3 chords rule, (CSE find center of circle), (CSE circle through 3 points), Broken dish problem, equidistant chords thm.  10.4 Inscribed angles, properties of cyclic quads.  10.5 Angles formed by chords/tangents, secants.  Mount Rainier Problem | Ch. 10  Review / Project  Measure a large circle with a stick, without entering circle.  Exam 10  BEST PPT  10.2 / 10.4 / 10.7 | Ch. 11  11.5 Finding the volume of cylinders and prisms, density, SF – AF – VF  11.6 Volume of Pyramids, demo the 1/3 rule, rectangular and triangular pyramids, polygonal pyramids\*  11.7 Volume of Cones | No Class  Special Lunch  Celebration | No Class  Campus Visit |