

Month	Standards	Student Learning Objective	Key Vocabulary	Instructional Resources
August-September	CC.2.1.7.E.1 CC.2.3.HS.A.1-4, 6, 11, 14	Add, subtract, multiply and divide fractions. Identify and apply properties of rays, parallel lines, planes, and points. Apply midpoint formula. Measure segments. Measure angles using a protractor. Determine distance with the distance formula plot on a coordinate grid. Find area, perimeter and circumference. Construct perpendicular bisectors, angle bisectors, parallel lines and congruent triangles.	conjecture counter example point space line plane postulate axiom Congruence coordinate plane quadrants midpoint Perimeter circumference area coordinate skew lines construction compass straight edge Bisector Protractor	Book - Prentice Hall Mathematics <i>Geometry</i> and worksheet masters Tests/Quizzes

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October- November	CC.2.3.HS.A.3, 5, 14	Identify parts of a statement. Determine truth value of a statement. Write the converse of a statement. Write a biconditional. Apply deductive reasoning. Fill in missing steps in a proof. Apply properties of parallel lines. Prove lines parallel. Apply triangle angle sum theorem. Identify types of triangles. Identify polygons up to 10 sides. Calculate interior angle sum for a polygon. Identify parallel and perpendicular lines. Identify the slope of a line.	adjacent angles biconditional complementary angles conclusion conditional converse deductive reasoning hypothesis reflexive property symmetric property theorem transitive property truth value vertical angles triangle types polygon polygon names exterior angle regular polygon same-side interior alternate interior corresponding angles slope transversal concave convex standard form equation point slope form equation slope-intercept form equation	Book - Prentice Hall Mathematics <i>Geometry</i> and worksheet masters Tests/Quizzes

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December	CC.2.3.HS.A.1-3, 14	Identify congruent triangles using HL, SSS, AAS, ASA, and SAS. Identify corresponding parts of congruent figures (CPCTC).	CPCTC hypotenuse leg base angles vertex angles	Book - Prentice Hall Mathematics <i>Geometry</i> and worksheet masters Tests/Quizzes
January	CC.2.3.HS.A.2,3,8, 14	Apply properties of midsegments of triangles. Apply properties of bisectors in triangles. Apply properties of medians and altitudes. Apply side and angle relationships in triangles. Write an inverse and contrapositive. Inscribe a triangle. Circumscribe a triangle.	altitude centroid circumcenter contrapositive incenter inscribe inverse median midsegment negation orthocenter	
February	CC.2.3.HS.A.2,14	Classify quadrilaterals. Identify quadrilaterals given properties of a figure. Apply properties of quadrilaterals.	base angles of trapezoid midsegment of trapezoid parallelogram rhombus rectangle square kite Trapezoid	

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March	CC.2.3.HS.A.3,9,14	Apply Pythagorean theorem. Calculate area of triangles and quadrilaterals. Calculate area of regular figures. Calculate area of circles and sectors of circles. Apply properties of special right triangles. Calculate geometric probability.	arcs apothem central angle geometric probability pythagorean triple sector of a circle semicircle	Book - Prentice Hall Mathematics <i>Geometry</i> and worksheet masters Tests/Quizzes
April	CC.2.3.HS.A.3,6,14	Apply proportions to similar figures. Identify similar figures. Prove triangles similar with SSS, SAS, ASA, AA. Apply proportions to indirectly measure. Compare perimeter and area of similar figures.	geometric mean indirect measurement proportion scale drawing ratio	

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May-June	CC.2.3.HS.A.3,7, 10,12-14	Use the sine, cosine, and tangent functions to find missing angles and sides of a right triangle. Describe vectors by coordinates. Calculate the magnitude and direction of a vector. Make a net of a 3d figure. Calculate surface area of selected 3d figures. Calculate volume of selected figures	vector sine cosine tangent surface area volume	Book - Prentice Hall Mathematics <i>Geometry</i> and worksheet masters Tests/Quizzes