

Van Buren Public Schools

Course Name: 6th Grade Mathematics

SF-AW: SCOTT FORESMAN-ADDISON WESLEY 1; PH: PRENTICE HALL; EM: EVERYDAY MATH; MATH 76: SAXON MATH 76

STRAND: GEOMETRY

Essential Outcomes/ Standards	Grade Level Content Expectations	Resources	Vocabulary	Assessments	Notes: Suggested Activities
Understand and apply basic properties					
Understand and apply basic properties of lines, angles, and triangles, including:	G.GS.06.01 [Future Core]	SF-AW: Chapter 8 Ph 326-335 EM 146-150	Parallel, perpendicular, ray, vertex, plane shape, intersect,	Practice /Reteaching 8-2	
Triangle inequality	G.GS.06.01 [Future Core]	SF-AW: 8-4, 8-5 PH 340-343	Equilateral, isosceles, right, scalene	Practice Reteaching 8-4	Triangle Classification using Geo Sketchpad #1-2
Relationships of vertical angles, complementary angle, supplementary angles	G.GS.06.01 [Future Core]	SF-AW: 8-2, 8-3 PH 337-339	Interior angle, vertex, intersect,	Practice Reteaching 8-3	Patty Paper Exercise/Worksheet: Parallel Lines Conjecture Worksheet: Properties of Lines, Angles, Triangles/Worksheet: Angle Identification

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Understand and apply basic properties					
Congruence of corresponding and alternate interior angles when parallel lines are cut by a transversal, and that such congruencies imply parallel lines.	G.GS.06.01 [Future Core]	SF-AW: 8-1, 8-2 PH 337-339	Parallel, perpendicular, ray, vertex, plane shape, intersect, Interior angle	Practice Reteaching 8-3	Patty Paper Exercise/ Worksheet: Parallel Lines Conjecture Worksheet: Properties of Lines, Angles, Triangles/ Worksheet: Angle Identification
Locate interior and exterior angles of any triangle, and use the property that an exterior angle of a triangle is equal to the sum of the remote (opposite) interior angles	G.GS.06.01 [Future Core]	SF-AW: 8-3, 8-4, 8-5 PH 340-343	Parallel, perpendicular, ray, vertex, intersect, interior angle	Worksheet: Properties of Lines, Angles, and Triangles	

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Understand and apply basic properties					
Know that the sum of the exterior angles of a convex polygon is 360°	G.GS.06.01 [Future Core]	SF-AW: 8-6, 8-3	Congruent, similar, regular figure, rhombus, parallelogram, square, quadrilateral, trapezoid, rectangle, reflection		
Understand the concept of congruence and basic transformations					
Understand that for polygons, congruence means corresponding sides and angles have equal measures.	G.GS.06.02 [Core]	SF-AW: 8-6	Congruent, similar, vertex, intersect		Pattern Block Measurement Activity, Sheet #1
Understand the basic rigid motions in the plane (reflections, rotations, translations), relate these to congruence, and apply them to congruence and apply them to solve problems.	G.GS.06.03 [Core]	SF-AW: 8-8, 8-9, 8-10 PH 370-374	Congruent, similar, regular figure, rhombus, parallelogram, square, quadrilateral, trapezoid, rectangle, rotations, half-turn, quarter-turn, rotational symmetry, reflection, kite	Practice Reteaching 8-11	Geo Sketchpad: Reflection, Flip, Rotation, Translation

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Essential Outcomes/ Standards	Grade Level Content Expectations	Resources	Vocabulary	Assessments	Notes: Suggested Activities
Understand the concept of congruence and basic transformations					
Understand and use simple compositions of basic rigid transformations, e.g., a translation followed by a reflection.	G.GS.06.04 [Core]	SF-AW: 8-8, 8-9, 8-10 PH 370-374	Translations, rotations, half-turn, quarter-turn, rotational symmetry, reflection, kite		
Construct geometric shapes					
Use paper folding to perform basic geometric constructions of perpendicular lines, midpoints of line segments, and angle bisectors; justify informally	G.SR.06.05 [Not Assessed at State Level]	SF-AW: 8-1, 8-2 PH 336	Parallel, perpendicular, ray, vertex, intersect, interior angle, midpoint,		