

Van Buren Public Schools

**Course Name: 7<sup>th</sup> Grade Mathematics**

SFAW: Scott Foresman-Addison Wesley; PH2: Prentice Hall 2; Saxon: Saxon Algebra ½

**STRAND: GEOMETRY**

Essential Outcomes/ Standards	Grade Level Content Expectations	Resources	Vocabulary	Assessments	Notes: Suggested Activities
<b>Draw and construct geometric objects</b>					
Use a ruler and other tools to draw squares, rectangles, triangles and parallelograms with specified dimensions	G.SR.07.01 [Core]	SFAW: 5-3, 7-1 PH2: 7-6, 7-9	Parallelogram Quadrilateral	Geometry Vocabulary Notebook	
Use compass and straight edge to perform basic geometric constructions: -the perpendicular bisector of a segment, -an equilateral triangle, -the bisector of an angle Understand informal justifications of those constructions	G.SR.07.02 [Not Assessed at State Level]	SF-AW: 5-1, 5-2 PH2: 7-2, 7-9	Perpendicular Bisector Equilateral Parallel	Geometry Vocabulary Notebook	

Van Buren Public Schools

**Course Name: 7<sup>th</sup> Grade Mathematics**

SFAW: Scott Foresman-Addison Wesley; PH2: Prentice Hall 2; Saxon: Saxon Algebra ½

**STRAND: GEOMETRY**

Essential Outcomes/ Standards	Grade Level Content Expectations	Resources	Vocabulary	Assessments	Notes: Suggested Activities
<b>Understand the concept of similar polygons and solve related problems</b>					
Understand that in similar polygons, corresponding angles are congruent and the ratios of the sides are equal	G.TR.07.03 [Core]	SF-AW: 7-8 Saxon: #65 PH2: 6-4	Corresponding sides, Congruent, similar Scale factor	Saxon: Quiz #17	
Understand the concepts of similar figures and scale factor	G.TR.07.03 [Core]	SF-AW: 7-9 PH2: 6-4, 6-5		Scale Model of Classroom	
Solve problems about similar figures and scale drawings.	G.TR.07.04 [Core]	SF-AW: 7-9, 7-10 Saxon: #113 PH2: 6-4, 6-5		Saxon: Quiz #29 Scale Model of Classroom	

Van Buren Public Schools

Course Name: 7<sup>th</sup> Grade Mathematics

SFAW: Scott Foresman-Addison Wesley; PH2: Prentice Hall 2; Saxon: Saxon Algebra ½

**STRAND: GEOMETRY**

Essential Outcomes/ Standards	Grade Level Content Expectations	Resources	Vocabulary	Assessments	Notes: Suggested Activities
<b>Understand the concept of similar polygons and solve related problems</b>					
Show that two triangles are similar using the criteria: -corresponding angles are congruent (AAA similarity) -the ratios of two pairs of corresponding sides are equal and the included angles are congruent (SAS similarity) -ratios of all pairs of corresponding sides are equal (SSS similarity)	G.TR.07.05 [Core]	SF-AW: 7-8 Saxon: #65		Saxon: Quiz #17	
Use the criteria to solve problems using the above criteria, and to justify arguments.	G.TR.07.05 [Core]	SF-AW: 7-8 Saxon: #65		Saxon: Quiz #17	

Van Buren Public Schools

**Course Name: 7<sup>th</sup> Grade Mathematics**

SFAW: Scott Foresman-Addison Wesley; PH2: Prentice Hall 2; Saxon: Saxon Algebra ½

**STRAND: GEOMETRY**

Essential Outcomes/ Standards	Grade Level Content Expectations	Resources	Vocabulary	Assessments	Notes: Suggested Activities
<b>Understand the concept of similar polygons and solve related problems</b>					
Understand and use the fact that when two triangles are similar with scale factor of $r$ , their areas are related by a factor of $r^2$ .	G.TR.07.06 [Core]	SF-AW: 7-10		AL / Practice 7-10	