Spring Lake Middle School
Math Grade 7 Curriculum Map
Second Trimester

Unit	CCSS	Learning Targets	Resources
Percents (Percent equations)	**7.EE.3** Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (whole numbers, fractions, and decimals), using tools strategically. Apply properties of operations to calculate with numbers in any form; convert between forms as appropriate; and assess the reasonableness of answers using mental computation and estimation strategies. **7.RP.3** Use proportional relationships to solve multistep ratio and percent problems.	I can write numbers in fraction, decimal, percent and whole number forms. I can solve real world problems using rational numbers in any form. I can solve a percent problem using a proportion and an equation.	Course 2: 6-2 On Core: 3-6 Course 2: 6-5, 6-6, 6-7
Percents (Percent increase/ decrease)	**7.EE.3** Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (whole numbers, fractions, and decimals), using tools strategically. Apply properties of operations to calculate with numbers in any form; convert between forms as appropriate; and assess the reasonableness of answers using mental computation and estimation strategies. **7.RP.3** Use proportional relationships to solve multistep ratio and percent problems.	I can find percent increase and decrease and apply to real-world situations	Course 2: 6-8 Course 3: 6-5 On Core : 2-4
Percents (Discount/ Markup)	**7.EE.3** Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (whole numbers, fractions, and decimals), using tools strategically. Apply properties of operations to calculate with numbers in any form; convert between forms as appropriate; and assess the reasonableness of answers using mental computation and estimation strategies. **7.RP.3** Use proportional relationships to solve multistep ratio and percent problems.	I can find markup and discount and apply to real world situations.	Course 3: 6-6
Percents (Simple Interest)	**7.EE.3** Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (whole numbers, fractions, and decimals), using tools strategically. Apply properties of operations to calculate with numbers in any form; convert between forms as appropriate; and assess the reasonableness of answers using mental computation and estimation strategies. **7.RP.3** Use proportional relationships to solve multistep ratio and percent problems.	I can find simple interest and apply to real world situations.	Course 2: 9-7 Course 3: 6-8 On Core: 2-4

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Triangles	**7.G.2** Draw (freehand, with ruler and protractor, and with technology) geometric shapes with given conditions. Focus on constructing triangles from three measures of angles or sides, noticing when the conditions determine a unique triangle, more than one triangle, or no triangle.	I can draw a geometric shape with specific conditions. I can construct triangles when given three measurements. I can determine when three specific measurements will result in one unique triangle, more than one triangle, or no triangle.	On Core: 4-2
Angles	**7.G.5** Use facts about supplementary, complementary, vertical, and adjacent angles in a multi-step problem to write and solve simple equations for an unknown angle in a figure.	I can identify supplementary, complementary, adjacent and vertical angles. I can use angle relationships to write equations for unknown angles	Course 2: 7-2 Course 3: 8-1 On Core: 4-4
Similarity (Identifying Similar Figures)	**7.G.1** Solve problems involving scale drawings of geometric figures, including computing actual lengths and areas from a scale drawing and reproducing a scale drawing at a different scale.	I can identify similar figures.	Course 2: 5-6 Course 3: 5-5
Similarity (Perimeter& Area of Similar Figures)	**7.G.1** Solve problems involving scale drawings of geometric figures, including computing actual lengths and areas from a scale drawing and reproducing a scale drawing at a different scale.	I can find the ratios of perimeters and areas of similar figures.	
Similarity (Finding Unknown Measures in Similar Figures)	**7.G.1** Solve problems involving scale drawings of geometric figures, including computing actual lengths and areas from a scale drawing and reproducing a scale drawing at a different scale.	I can find missing measures in similar figures.	Course 2: 5-6 Course 3: 5-5
Similarity (Scale Drawings)	**7.G.1** Solve problems involving scale drawings of geometric figures, including computing actual lengths and areas from a scale drawing and reproducing a scale drawing at a different scale.	I can use a scale drawing to determine the actual dimensions and area of a geometric figure. I can use a different scale to reproduce a similar scale drawing.	Course 2: 5-6 Course 3: 5-7 On Core: 4-1
Cross Section of solids	**7.G.3** Describe the two-dimensional figures that result from slicing three- dimensional figures, as in plane sections of right rectangular prisms and right rectangular pyramids.	I can name the two-dimensional figure that represents a particular slice of a three dimensional figure.	On Core: 4-3

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Circumference of Circles	**7.G.4** Know the formulas for the area and circumference of a circle and use them to solve problems; give an informal derivation of the relationship between the circumference and area of a circle. **7.G.6** Solve real-world and mathematical problems involving area, volume and surface area of two- and three-dimensional objects composed of triangles, quadrilaterals, polygons, cubes, and right prisms.	I can find circumference of a circle	Course 2: 8-4 Course 3: 8-8 On Core: 5-1
Area of Circles	**7.G.4** Know the formulas for the area and circumference of a circle and use them to solve problems; give an informal derivation of the relationship between the circumference and area of a circle. **7.G.6** Solve real-world and mathematical problems involving area, volume and surface area of two- and three-dimensional objects composed of triangles, quadrilaterals, polygons, cubes, and right prisms.	I can find area of a circle	Course 2: 8-4 Course 3: 8-8 On Core: 5-2
Area (composite figures)	**7.G.6** Solve real-world and mathematical problems involving area, volume and surface area of two- and three-dimensional objects composed of triangles, quadrilaterals, polygons, cubes, and right prisms	I can find area of irregular figures	Course 2: 8-3 On Core: 5-3
Surface Area (prisms)	**7.G.6** Solve real-world and mathematical problems involving area, volume and surface area of two- and three-dimensional objects composed of triangles, quadrilaterals, polygons, cubes, and right prisms.	I can find surface area of prisms.	Course 2: 8-8 Course 3: 9-4 On Core: 5-4
Surface Area (rectangular pyramids)	**7.G.6** Solve real-world and mathematical problems involving area, volume and surface area of two- and three-dimensional objects composed of triangles, quadrilaterals, polygons, cubes, and right prisms.	I can find surface area of rectangular pyramids	Course 3: 9-4 On Core: 5-4
Surface Area (composite solids)	**7.G.6** Solve real-world and mathematical problems involving area, volume and surface area of two- and three-dimensional objects composed of triangles, quadrilaterals, polygons, cubes, and right prisms.	I can find surface area of composite solids.	Course 3: 9-5 On Core: 5-4

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