



Saddlebrook Preparatory School

Curriculum Map- Scope and Sequence:  
Geometry

Purpose of Planning	Unit One Q1 W1-2	Unit Two Q1 W3-4	Unit Three Q1 W5-7	Unit Four Q1 W8 – Q2 W4	Unit Five Q2 W5-8
<b>Unit Topic and Overview:</b>	Tools of Geometry	Reasoning and Proof	Parallel and Perpendicular Lines	Triangles	Polygons and Quadrilaterals
<b>Prerequisite Student Knowledge</b> *What should students have previously mastered prior to this unit?	Students entering a Geometry class for the first time should be able to identify basic shapes, should know how to use a ruler, and should be able to identify common units of measure.	Students should understand that in order to verify the veracity of a conclusion it must be tested and stand up against scrutiny.	Students must know the vocabulary from the previous two units in order to gain a deep understanding of the concepts discussed in the third unit.	Students need to understand the concept of proofs and their application. They also must have a solid foundation in algebraic principles and critical thinking skills.	Students should have background knowledge of the characteristics that separate parallelograms from rhombuses, rectangles, and squares. Students will also need to apply previously learned skills about coordinate planes.
<b>Essential Knowledge &amp; Student Expectations</b> *What are the anticipated learning outcomes for students?	Students will recognize and draw two-dimensional figures from three-dimensional objects, apply the midpoint and distance formulas, and calculate perimeter, circumference, and area.  Essential Question: How are midpoint and distance relevant to calculating the perimeter, circumference, and area?	Students will use logic and reason to determine the truth-values of conditional statements. They will also prove congruency of angles.  Essential Question: What are the four types of conditional statements and how are they formatted?	Students will memorize the properties of parallel and perpendicular lines and use their characteristics to determine their slopes.  Essential Question: What is the relationship between parallel and perpendicular lines?	Students will apply the postulate and theorems of congruence to determine the congruency of triangles. They will also use the properties of various segments to determine side lengths and the four centers of a triangle.  Essential Question: How is algebra used to find the circumcenter, incenter, centroid, and orthocenter of a triangle?	Students will determine specific types of parallelograms by applying the characteristics of parallelograms, rhombuses, rectangles, squares, kites, and trapezoids. They will then apply that knowledge to figures in the coordinate plane.  Essential Question: What are the characteristics of each type of quadrilateral?



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<p><b>Multi-Media Links:</b> *Videos, presentations, any and all supplemental online material.</p>	<ul style="list-style-type: none"> <li>• <a href="#">Khan Academy</a></li> <li>• <a href="#">Class Website</a></li> <li>• Vocabulary and Formulas List</li> <li>• PowerPoint: Chapter 1</li> <li>• <a href="#">Pearson SuccessNet</a></li> <li>• <a href="#">Teacher Facebook Page</a></li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">Khan Academy</a></li> <li>• <a href="#">Class Website</a></li> <li>• Vocabulary and Formulas List</li> <li>• PowerPoint: Chapter 2</li> <li>• <a href="#">Pearson SuccessNet</a></li> <li>• <a href="#">Teacher Facebook Page</a></li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">Khan Academy</a></li> <li>• <a href="#">Khan Academy</a></li> <li>• <a href="#">Class Website</a></li> <li>• Vocabulary and Formulas List</li> <li>• PowerPoint: Chapter 3</li> <li>• <a href="#">Pearson SuccessNet</a></li> <li>• <a href="#">Teacher Facebook Page</a></li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">Khan Academy</a></li> <li>• <a href="#">Khan Academy</a></li> <li>• <a href="#">Khan Academy</a></li> <li>• <a href="#">Class Website</a></li> <li>• Vocabulary and Formulas List</li> <li>• PowerPoint: Points of Concurrency in Triangles</li> <li>• <a href="#">Pearson SuccessNet</a></li> <li>• <a href="#">Teacher Facebook Page</a></li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">Khan Academy</a></li> <li>• <a href="#">Khan Academy</a></li> <li>• <a href="#">Class Website</a></li> <li>• Vocabulary and Formulas List</li> <li>• PowerPoint/Video</li> <li>• <a href="#">Pearson SuccessNet</a></li> <li>• <a href="#">Teacher Facebook Page</a></li> </ul>



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<p><b>Interdisciplinary Lessons &amp; Projects:</b> *State additional content areas and title all lesson(s) and project(s)</p>	<p>Assignment: Find the distance between Tampa and your hometown (if you're from Tampa then use the distance between the school and your house). Convert the measurement to kilometers, meters, yards, and feet.</p> <p>Geography</p>	<p>Assignment: Ask a teacher or coach to finish this statement for you: "If I skip practice (don't take a test), then..."</p> <p>What are the truth values of the conditional, converse, inverse, and contrapositive? Is it possible to create a biconditional statement? If so, then do it.</p> <p>Philosophy</p>	<p>Assignment: Take a picture of a pair of parallel lines and perpendicular lines somewhere on campus.</p> <p>Art/Photography</p>	<p>Assignment: Find an example of triangles being used in architecture.</p> <p>Art/History</p>	<p>Assignment: You are going to set up a football/soccer/ultimate Frisbee field on a field with no lines. You do however have a 300 foot piece of string. Devise a way to determine whether or not your field is a rectangle.</p> <p>Physical Education</p>



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<b>Integrated Common Core or NGSSS Standards (List):</b> *See Below for Links	<ul style="list-style-type: none"> <li><a href="#">CCSS.Math.Content.HSG.C.O.A.1</a></li> <li><a href="#">CCSS.Math.Content.HSG.C.O.C.9</a></li> <li><a href="#">CCSS.Math.Content.HSG.C.O.D.12</a></li> <li><a href="#">CCSS.Math.Content.HSG.C.O.D.13</a></li> </ul>	<ul style="list-style-type: none"> <li><a href="#">CCSS.Math.Content.HSG.C.O.C.9</a></li> </ul>	<ul style="list-style-type: none"> <li><a href="#">CCSS.Math.Content.HSG.C.O.A.1</a></li> <li><a href="#">CCSS.Math.Content.HSG.C.O.C.9</a></li> <li><a href="#">CCSS.Math.Content.HSG.GPE.B.5</a></li> </ul>	<ul style="list-style-type: none"> <li><a href="#">CCSS.Math.Content.HSG.C.O.B.7</a></li> <li><a href="#">CCSS.Math.Content.HSG.C.O.B.8</a></li> <li><a href="#">CCSS.Math.Content.HSG.C.O.C.10</a></li> <li><a href="#">CCSS.Math.Content.HSG.SRT.B.5</a></li> </ul>	<ul style="list-style-type: none"> <li><a href="#">CCSS.Math.Content.HSG.C.O.C.11</a></li> <li><a href="#">CCSS.Math.Content.HSG.GPE.B.4</a></li> <li><a href="#">CCSS.Math.Content.HSG.GPE.B.7</a></li> </ul>
<b>Integrated CCSS Writing Standards (List):</b> *See Below for Links	<ul style="list-style-type: none"> <li><a href="#">CCSS.ELA-Literacy.W.9-10.1.d</a></li> <li><a href="#">CCSS.ELA-Literacy.W.9-10.2.d</a></li> </ul>	<ul style="list-style-type: none"> <li><a href="#">CCSS.ELA-Literacy.W.9-10.1.d</a></li> <li><a href="#">CCSS.ELA-Literacy.W.9-10.2.d</a></li> </ul>	<ul style="list-style-type: none"> <li><a href="#">CCSS.ELA-Literacy.W.9-10.1.d</a></li> <li><a href="#">CCSS.ELA-Literacy.W.9-10.2.d</a></li> </ul>	<ul style="list-style-type: none"> <li><a href="#">CCSS.ELA-Literacy.W.9-10.1.d</a></li> <li><a href="#">CCSS.ELA-Literacy.W.9-10.2.d</a></li> </ul>	<ul style="list-style-type: none"> <li><a href="#">CCSS.ELA-Literacy.W.9-10.1.d</a></li> <li><a href="#">CCSS.ELA-Literacy.W.9-10.2.d</a></li> </ul>
<b>Links to CCSS/NGSSS Curriculum Standards:</b>	<p>The following links will be used to incorporate the CCSS and other applicable standards:</p> <ul style="list-style-type: none"> <li>The <a href="#">Common Core State Standard</a> expectations in Geometry</li> <li>The <a href="#">K-12 English LA and Content Area Writing Standards</a></li> <li>The <a href="#">K-12 Reading Standards</a></li> <li>The <a href="#">K-12 Mathematics Standards</a></li> <li>The <a href="#">K-12 NGSSS Science &amp; Social Studies Standards</a></li> </ul>				
<b>Purpose of Planning</b>	<b>Unit Six</b> Q3 W1-4	<b>Unit Seven</b> Q3 W5-7	<b>Unit Eight</b> Q3 W8 – Q4 W2	<b>Unit Nine</b> Q4 W3-5	<b>Unit Ten</b> Q4 W6-8



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<b>Unit Topic and Overview:</b>	Special Triangles and Trigonometry	Circles	Surface Area and Volume	Similarity	Transformations
<b>Prerequisite Student Knowledge</b> *What should students have previously mastered prior to this unit?	Students should be able to recall past lessons and uses of the Pythagorean Theorem. They will also need to be able to draw in auxiliary lines that aid in completing problems.	Students need to recall terms and definitions related to circles. They should also be able to draw out figures, use auxiliary lines, and look at any given figures as a puzzle.	Students will need to recall vocabulary from previous units and they should also have an understanding of the difference between one-dimensional, two-dimensional, and three-dimensional figures.	Students will need to draw on their knowledge of congruency and congruency statements as they are related to similarity and similarity statements.	Students should have background knowledge of reflections and symmetry from real-world applications.
<b>Essential Knowledge &amp; Student Expectations</b> *What are the anticipated learning outcomes for students?	Students will apply the ratios of special triangles and trigonometric functions to determine side lengths and angle measures. They will then use this knowledge to determine the perimeters and areas of regular polygons.  Essential Question: What is SohCahToa and how is it applied to finding side lengths and areas of polygons?	Students will use the characteristics of tangent lines, chords, secant lines, and angle measures to determine other characteristics of circles.  Essential Question: What are the characteristics of tangents, chords, and secants? How are central and inscribed angles related?	Students will memorize formulas related to lateral area, surface area, and volume to calculate the surface areas and volumes of space figures. They will also use ratios to determine the relative sizes of space figures.  Essential Question: How are previously learned concepts applied to finding the lateral areas, surface areas, and volumes of space figures?	Students will apply ratios and scale factors to prove or disprove the similarity of two-dimensional figures.  Essential Question: How are ratios applied?	Students will create translations, reflections, rotations, and dilations of two-dimensional figures.  Essential Questions: What are the real world applications of translations, reflections, rotations, and dilations?



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<p><b>Interdisciplinary Lessons &amp; Projects:</b> *State additional content areas and title all lesson(s) and project(s)</p>	<p>Assignment: Find the side length of a regular polygon that you see on a regular basis (hexagon or pentagon on a soccer ball, a square cubby, tile on the floor, etc.) and calculate the apothem and area of the entire figure.</p> <p>Physical Fitness/Home Economics</p>	<p>Assignment: In most NASCAR races, the cars go around an oval or somewhat oval track. Which pair of tires travels a further distance? Which set of tires should have to be changed more often during a race? Does this actually happen? Why or why not?</p> <p>Automotive</p>	<p>Assignment: You have a space in your home that is 18 inches wide by 20. 32 centimeters deep by 3 feet high. You want to put an aquarium in this space with a volume equal to <math>2 \text{ m}^3</math>. Do you have enough room for the aquarium in that space? Prove your answer.</p> <p>Building Construction/Architecture</p> <p><math>\pi</math> Day Celebration</p> <p>World Cultures</p>	<p>Assignment: Identify two objects that are similar, but not congruent. You can find your answer in zoology, astronomy, architecture, anatomy, etc.</p> <p>Science/Architecture</p>	<p>Assignment: Sketch an object (not a stick figure or a line drawing/must have detail) and reflect it over a line.</p> <p>Art</p>



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### Saddlebrook Preparatory School

<b>Honors Course Differentiation(s):</b>	<ul style="list-style-type: none"> <li>Additional questions on assignments</li> <li>Additional questions on each quiz and test that require greater thought and skill to complete</li> <li>Semester long project – Dream Home</li> </ul>	<ul style="list-style-type: none"> <li>Additional questions on assignments</li> <li>Additional questions on each quiz and test that require greater thought and skill to complete</li> <li>Semester long project – Dream Home</li> </ul>	<ul style="list-style-type: none"> <li>Additional questions on assignments</li> <li>Additional questions on each quiz and test that require greater thought and skill to complete</li> <li>Semester long project – Dream Home</li> </ul>	<ul style="list-style-type: none"> <li>Additional questions on assignments</li> <li>Additional questions on each quiz and test that require greater thought and skill to complete</li> <li>Semester long project – Dream Home</li> </ul>	<ul style="list-style-type: none"> <li>Additional questions on assignments</li> <li>Additional questions on each quiz and test that require greater thought and skill to complete</li> <li>Semester long project – Dream Home</li> </ul>
<b>Integrated Common Core or NGSSS Standards (List):</b> *See Below for Links	<ul style="list-style-type: none"> <li><a href="#">CCSS.Math.Content.HSG.CO.C.10</a></li> <li><a href="#">CCSS.Math.Content.HSG.RT.C.7</a></li> <li><a href="#">CCSS.Math.Content.HSG.RT.C.8</a></li> <li><a href="#">CCSS.Math.Content.HSG.RT.D.9</a></li> <li><a href="#">CCSS.Math.Content.HSG.RT.D.10</a></li> <li><a href="#">CCSS.Math.Content.HSG.RT.D.11</a></li> </ul>	<ul style="list-style-type: none"> <li><a href="#">CCSS.Math.Content.HSG.C.A.1</a></li> <li><a href="#">CCSS.Math.Content.HSG.C.A.2</a></li> <li><a href="#">CCSS.Math.Content.HSG.C.A.3</a></li> <li><a href="#">CCSS.Math.Content.HSG.C.A.4</a></li> <li><a href="#">CCSS.Math.Content.HSG.C.B.5</a></li> <li><a href="#">CCSS.Math.Content.HSG.GPE.A.1</a></li> </ul>	<ul style="list-style-type: none"> <li><a href="#">CCSS.Math.Content.HSG.GMD.A.1</a></li> <li><a href="#">CCSS.Math.Content.HSG.GMD.A.2</a></li> <li><a href="#">CCSS.Math.Content.HSG.GMD.A.3</a></li> <li><a href="#">CCSS.Math.Content.HSG.GMD.B.4</a></li> </ul>	<ul style="list-style-type: none"> <li><a href="#">CCSS.Math.Content.HSG.SRT.A.2</a></li> <li><a href="#">CCSS.Math.Content.HSG.SRT.A.3</a></li> <li><a href="#">CCSS.Math.Content.HSG.SRT.B.4</a></li> <li><a href="#">CCSS.Math.Content.HSG.SRT.C.6</a></li> </ul>	<ul style="list-style-type: none"> <li><a href="#">CCSS.Math.Content.HSG.O.A.2</a></li> <li><a href="#">CCSS.Math.Content.HSG.O.A.3</a></li> <li><a href="#">CCSS.Math.Content.HSG.O.A.4</a></li> <li><a href="#">CCSS.Math.Content.HSG.O.A.5</a></li> <li><a href="#">CCSS.Math.Content.HSG.SRT.A.1</a></li> </ul>
<b>Integrated CCSS Writing Standards (List):</b> *See Below for Links	<ul style="list-style-type: none"> <li><a href="#">CCSS.ELA-Literacy.W.9-10.1.d</a></li> <li><a href="#">CCSS.ELA-Literacy.W.9-10.2.d</a></li> </ul>	<ul style="list-style-type: none"> <li><a href="#">CCSS.ELA-Literacy.W.9-10.1.d</a></li> <li><a href="#">CCSS.ELA-Literacy.W.9-10.2.d</a></li> </ul>	<ul style="list-style-type: none"> <li><a href="#">CCSS.ELA-Literacy.W.9-10.1.d</a></li> <li><a href="#">CCSS.ELA-Literacy.W.9-10.2.d</a></li> </ul>	<ul style="list-style-type: none"> <li><a href="#">CCSS.ELA-Literacy.W.9-10.1.d</a></li> <li><a href="#">CCSS.ELA-Literacy.W.9-10.2.d</a></li> </ul>	<ul style="list-style-type: none"> <li><a href="#">CCSS.ELA-Literacy.W.9-10.1.d</a></li> <li><a href="#">CCSS.ELA-Literacy.W.9-10.2.d</a></li> </ul>
<b>Links to CCSS/NGSSS Curriculum Standards:</b>	<p>The following links will be used to incorporate the CCSS and other applicable standards:</p> <ul style="list-style-type: none"> <li>The <a href="#">Common Core State Standard</a> expectations in Geometry.</li> <li>The <a href="#">K-12 English Language Arts and Content Area Writing Standards</a></li> <li>The <a href="#">K-12 Reading Standards</a></li> <li>The <a href="#">K-12 Mathematics Standards</a></li> <li>The <a href="#">K-12 NGSSS Science &amp; Social Studies Standards</a></li> </ul>				

