



<b>Mathematics Grade 7 Shape and Space (SS)</b>				
<b>Outcome</b>	<b>1 – Little Evidence</b> With help, I understand parts of the simpler ideas and do a few of the simpler skills.	<b>2 – Partial Evidence</b> I understand the simpler ideas and can do the simpler skills. I am working on the more complex ideas and skills.	<b>3 – Sufficient Evidence</b> I understand the more complex ideas and can master the complex skills that are taught in class. <b>I achieve the outcome.</b>	<b>4- Extensive Evidence</b> I have a deep understanding of the complex ideas, and I can use the skills I have learned in situations that were not taught in class.
<b>SS7.1</b> <b>I can demonstrate an understanding of circles including circumference and central angles. [C, CN, R, V]</b>	<ul style="list-style-type: none"> <li>I can <b>identify</b> the radius, the diameter, <b>AND</b> the circumference of a circle.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>demonstrate the relationship between a radius and diameter</b> in a circle.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>demonstrate the relationship between diameter AND circumference</b> in a circle.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>explain the relationship between diameter AND circumference</b> in a circle.</li> </ul>
	<ul style="list-style-type: none"> <li>With help, I can identify the circumference of a circle on a diagram</li> </ul>	<ul style="list-style-type: none"> <li>I am able to determine the <b>circumference of a circle, given its diameter.</b></li> </ul>	<ul style="list-style-type: none"> <li>I am able to <b>determine the circumference</b> of a circle, given its diameter, <b>AND determine its diameter given its circumference.</b></li> </ul>	<ul style="list-style-type: none"> <li>I am able to determine the circumference of a circle, given its diameter <b>AND</b> radius, <b>AND</b> determine its diameter <b>AND</b> radius given its circumference.</li> </ul>
	<ul style="list-style-type: none"> <li>I can <b>identify a central angle</b> in a circle.</li> </ul>	<ul style="list-style-type: none"> <li>Given one central angle, I am able to <b>find other central angles</b> in a circle.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>demonstrate that the sum of the central angles of a circle is 360°.</b></li> </ul>	<ul style="list-style-type: none"> <li>Given the measure of some central angles in a circle, I can <b>determine the measure of a missing central angle.</b></li> </ul>
	With help, I can describe how the value of pi relates to the circumference of any circle.	<ul style="list-style-type: none"> <li>I can <b>describe how the value of pi relates to the circumference of any circle.</b></li> </ul>	<ul style="list-style-type: none"> <li>I can <b>explain how to use pi to determine the circumference of any circle, AND</b> I am able to provide the value of pi to two decimal places.</li> </ul>	<ul style="list-style-type: none"> <li>I can demonstrate the relationship between a radius, a diameter, circumference, <b>AND</b> pi in a circle.</li> </ul>



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<b>SS7.2</b> <b>I can develop and apply formulas for determining the area of:</b> <ul style="list-style-type: none"> <li>○ triangles</li> <li>○ parallelograms</li> <li>○ circles.</li> </ul> <b>[CN, PS, R, V]</b>	<ul style="list-style-type: none"> <li>• I can <b>explain the similarities and differences</b> between a rectangle and a triangle.</li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>demonstrate the relationship</b> between a rectangle and a triangle.</li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>develop a formula for determining the area of a triangle.</b></li> </ul>	<ul style="list-style-type: none"> <li>• I can develop a formula for determining the area of a triangle, <b>AND explain the process.</b></li> </ul>
	<ul style="list-style-type: none"> <li>• I can <b>explain the similarities and differences</b> between a rectangle and a parallelogram.</li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>demonstrate the relationship</b> between a parallelogram <b>AND</b> a rectangle.</li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>develop a formula for determining the area of a parallelogram.</b></li> </ul>	<ul style="list-style-type: none"> <li>• I can develop a formula for determining the area of a parallelogram, <b>AND explain the process.</b></li> </ul>
	<ul style="list-style-type: none"> <li>• <b>With help</b>, I can estimate the area of a circle, given its radius or diameter.</li> </ul>	<ul style="list-style-type: none"> <li>• Given the radius or diameter of a circle, I can estimate the area of a circle.</li> </ul>	<ul style="list-style-type: none"> <li>• Using a formula, I am able to find the <b>area of circles.</b></li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>demonstrate and explain</b> how the formula for the area of the circle is derived.</li> </ul>
	<ul style="list-style-type: none"> <li>• With help, I can solve problems involving the area of triangles, parallelograms <b>OR</b> circles.</li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>solve problems</b> involving the area of triangles, parallelograms <b>OR</b> circles.</li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>solve problems</b> involving the area of triangles, parallelograms <b>AND</b> circles.</li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>solve complex, multistep problems</b> involving area of triangles, parallelograms, and circles.</li> </ul>
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<b>SS7.3</b> <b>I can demonstrate an understanding of 2-D relationships involving lines and angles. [CN, R, V, T]</b>	<ul style="list-style-type: none"> <li>Given examples, I can identify parallel lines <b>AND</b> perpendicular lines.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>create</b> parallel <b>OR</b> perpendicular line segments.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>create and verify</b> parallel <b>AND</b> perpendicular line segments.</li> </ul>	<ul style="list-style-type: none"> <li>I am able to create my own designs, using parallel and perpendicular lines.</li> </ul>
	<ul style="list-style-type: none"> <li>Given examples, I can identify angle bisectors <b>AND</b> perpendicular bisectors.</li> </ul>	<ul style="list-style-type: none"> <li>Using a variety of tools and methods, I can <b>create</b> angle bisectors <b>OR</b> perpendicular bisectors.</li> </ul>	<ul style="list-style-type: none"> <li>Using a variety of tools and methods, I can <b>create and verify</b> angle bisectors <b>AND</b> perpendicular bisectors.</li> </ul>	<ul style="list-style-type: none"> <li>I am able to <b>create and solve</b> problems involving parallel and perpendicular lines, bisectors, and perpendicular bisectors.</li> </ul>



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<b>SS7.4</b> <b>I can demonstrate an understanding of the Cartesian plane and ordered pairs with integral coordinates. [C, CN, V]</b>	<ul style="list-style-type: none"><li>Given <b>positive coordinates</b>, I can plot points on the Cartesian plane.</li></ul>	<ul style="list-style-type: none"><li>Given positive or negative coordinates, I can <b>plot points</b> anywhere on the Cartesian plane.</li></ul>	<ul style="list-style-type: none"><li>I am able to create my own <b>simple</b> design anywhere on the Cartesian plane <b>AND</b> provide the ordered pairs for the points I have plotted.</li></ul>	<ul style="list-style-type: none"><li>I am able to create my own <b>complex</b> design on the Cartesian plane and provide the coordinates for the points that I have plotted.</li></ul>



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<b>SS7.5</b> <b>I can expand and demonstrate an understanding of transformations (translations, rotations, and reflections) of 2-D shapes in all four quadrants of the Cartesian plane. [CN, PS, T, V]</b>	<ul style="list-style-type: none"> <li>I can identify the translation, reflection, <b>AND</b> rotation of a design on the Cartesian plane.</li> </ul>	<ul style="list-style-type: none"> <li>I am able to identify the coordinates of the vertices of a transformed design on the Cartesian plane.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>perform two or more consecutive transformations</b> of a design anywhere on the Cartesian plane.</li> </ul>	<ul style="list-style-type: none"> <li>I am able to <b>solve multi-step problems</b> involving transformations on the Cartesian plane.</li> </ul>
	<ul style="list-style-type: none"> <li><b>With help</b>, I can describe the horizontal and vertical movement of a translated design anywhere on the Cartesian plane.</li> </ul>	<ul style="list-style-type: none"> <li>I am able to describe the <b>horizontal and vertical movement</b> of a translated design <b>OR</b> direction and angle of a rotated design <b>OR</b> the line of reflection of a reflection design anywhere on the Cartesian plane.</li> </ul>	<ul style="list-style-type: none"> <li>I am able to <b>describe the transformations (translation, rotation, AND reflection) of figures anywhere on the Cartesian plane, according to the appropriate criteria: horizontal and vertical movement, direction and angle of rotation, OR the line of reflection.</b></li> </ul>	<ul style="list-style-type: none"> <li>I am able to explain the similarities and differences between a variety of transformed designs on the Cartesian plane.</li> </ul>