

Mathematics Grade 7 Shape and Space (SS)				
Outcome	1 - Beginning The student is having difficulty demonstrating an understanding of the concept.	2 – Approaching The student is developing an understanding of the concept.	3 – Meeting The student consistently demonstrates an understanding of the concept or has achieved the concept.	4- Exemplary The student independently demonstrates an in-depth understanding of the concept, and consistently applies this knowledge to new situations.
SS7.1 I can demonstrate an understanding of circles including circumference and central angles. [C, CN, R, V]	<ul style="list-style-type: none"> I can identify the radius, the diameter, AND the circumference of a circle. 	<ul style="list-style-type: none"> I can demonstrate the relationship between a radius and diameter in a circle. 	<ul style="list-style-type: none"> I can demonstrate the relationship between diameter AND circumference in a circle. 	<ul style="list-style-type: none"> I can explain the relationship between diameter AND circumference in a circle.
	<ul style="list-style-type: none"> With help, I can identify the circumference of a circle on a diagram 	<ul style="list-style-type: none"> I am able to determine the circumference of a circle, given its diameter. 	<ul style="list-style-type: none"> I am able to determine the circumference of a circle, given its diameter, AND determine its diameter given its circumference. 	<ul style="list-style-type: none"> I am able to determine the circumference of a circle, given its diameter AND radius, AND determine its diameter AND radius given its circumference.
	<ul style="list-style-type: none"> I can identify a central angle in a circle. 	<ul style="list-style-type: none"> Given one central angle, I am able to find other central angles in a circle. 	<ul style="list-style-type: none"> I can demonstrate that the sum of the central angles of a circle is 360°. 	<ul style="list-style-type: none"> Given the measure of some central angles in a circle, I can determine the measure of a missing central angle.
	<p>With help, I can describe how the value of pi relates to the circumference of any circle.</p>	<ul style="list-style-type: none"> I can describe how the value of pi relates to the circumference of any circle. 	<ul style="list-style-type: none"> I can explain how to use pi to determine the circumference of any circle, AND I am able to provide the value of pi to two decimal places. 	<ul style="list-style-type: none"> I can demonstrate the relationship between a radius, a diameter, circumference, AND pi in a circle.
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SS7.2 I can develop and apply formulas for determining the area of: ○ triangles ○ parallelograms ○ circles. [CN, PS, R, V]	<ul style="list-style-type: none"> I can explain the similarities and differences between a rectangle and a triangle. 	<ul style="list-style-type: none"> I can demonstrate the relationship between a rectangle and a triangle. 	<ul style="list-style-type: none"> I can develop a formula for determining the area of a triangle. 	<ul style="list-style-type: none"> I can develop a formula for determining the area of a triangle, AND explain the process.
	<ul style="list-style-type: none"> I can explain the similarities and differences between a rectangle and a parallelogram. 	<ul style="list-style-type: none"> I can demonstrate the relationship between a parallelogram AND a rectangle. 	<ul style="list-style-type: none"> I can develop a formula for determining the area of a parallelogram. 	<ul style="list-style-type: none"> I can develop a formula for determining the area of a parallelogram, AND explain the process.
	<ul style="list-style-type: none"> With help, I can estimate the area of a circle, given its radius or diameter. 	<ul style="list-style-type: none"> Given the radius or diameter of a circle, I can estimate the area of a circle. 	<ul style="list-style-type: none"> Using a formula, I am able to find the area of circles. 	<ul style="list-style-type: none"> I can demonstrate and explain how the formula for the area of the circle is derived.
	<ul style="list-style-type: none"> With help, I can solve problems involving the area of triangles, parallelograms OR circles. 	<ul style="list-style-type: none"> I can solve problems involving the area of triangles, parallelograms OR circles. 	<ul style="list-style-type: none"> I can solve problems involving the area of triangles, parallelograms AND circles. 	<ul style="list-style-type: none"> I can solve complex, multistep problems involving area of triangles, parallelograms, and circles.
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SS7.3 I can demonstrate an understanding of 2-D relationships involving lines and angles. [CN, R, V, T]	<ul style="list-style-type: none"> Given examples, I can identify parallel lines AND perpendicular lines. 	<ul style="list-style-type: none"> I can create parallel OR perpendicular line segments. 	<ul style="list-style-type: none"> I can create and verify parallel AND perpendicular line segments. 	<ul style="list-style-type: none"> I am able to create my own designs, using parallel and perpendicular lines.
	<ul style="list-style-type: none"> Given examples, I can identify angle bisectors AND perpendicular bisectors. 	<ul style="list-style-type: none"> Using a variety of tools and methods, I can create angle bisectors OR perpendicular bisectors. 	<ul style="list-style-type: none"> Using a variety of tools and methods, I can create and verify angle bisectors AND perpendicular bisectors. 	<ul style="list-style-type: none"> I am able to create and solve problems involving parallel and perpendicular lines, bisectors, and perpendicular bisectors.
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SS7.4 I can demonstrate an understanding of the Cartesian plane and ordered pairs with integral coordinates. [C, CN, V]	<ul style="list-style-type: none"> • Given positive coordinates, I can plot points on the Cartesian plane. 	<ul style="list-style-type: none"> • Given positive or negative coordinates, I can plot points anywhere on the Cartesian plane. 	<ul style="list-style-type: none"> • I am able to create my own simple design anywhere on the Cartesian plane AND provide the ordered pairs for the points I have plotted. 	<ul style="list-style-type: none"> • I am able to create my own complex design on the Cartesian plane and provide the coordinates for the points that I have plotted.
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SS7.5 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]	<ul style="list-style-type: none"> I can identify the translation, reflection, AND rotation of a design on the Cartesian plane. 	<ul style="list-style-type: none"> I am able to identify the coordinates of the vertices of a transformed design on the Cartesian plane. 	<ul style="list-style-type: none"> I can perform two or more consecutive transformations of a design anywhere on the Cartesian plane. 	<ul style="list-style-type: none"> I am able to solve multi-step problems involving transformations on the Cartesian plane.
	<ul style="list-style-type: none"> With help, I can describe the horizontal and vertical movement of a translated design anywhere on the Cartesian plane. 	<ul style="list-style-type: none"> I am able to describe the horizontal and vertical movement of a translated design OR direction and angle of a rotated design OR the line of reflection of a reflection design anywhere on the Cartesian plane. 	<ul style="list-style-type: none"> I am able to 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. 	<ul style="list-style-type: none"> I am able to explain the similarities and differences between a variety of transformed designs on the Cartesian plane.
Comments:				