

| Mathematics Grade 6 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. |
| SS6.1 I can demonstrate understanding of angles including: <ul style="list-style-type: none"> ○ identifying examples classifying angles ○ estimating the measure ○ determining angle measures in degrees ○ drawing angles ○ applying angle relationships in triangles and quadrilaterals. <p>[C, CN, ME, PS, R, V]</p> | <ul style="list-style-type: none"> • I can draw an angle and I can identify angles in the environment. | <ul style="list-style-type: none"> • I can classify an angle as being an acute, obtuse, straight, right, OR reflex angle with or without the use of a referent. | <ul style="list-style-type: none"> • I can draw AND classify an angle as being an acute, obtuse, straight, right, AND reflex angle with or without the use of a referent. | <ul style="list-style-type: none"> • I can draw, classify, and explain why an angle is an acute, obtuse, straight, right, AND reflex angle without the use of a referent. |
| | <ul style="list-style-type: none"> • I can explain the difference between measuring length and measuring an angle. | <ul style="list-style-type: none"> • I can estimate the measure of an angle in degrees. | <ul style="list-style-type: none"> • I can accurately estimate the measure of an angle in degrees, then verify that I am right by measuring with a protractor. | <ul style="list-style-type: none"> • I can accurately estimate the measure of an angle in degrees, then verify with a protractor, and explain the process. |
| | <ul style="list-style-type: none"> • I can identify the number of angles in a triangle and in a quadrilateral. | <ul style="list-style-type: none"> • I can prove that the sum of the angles in a triangle total 180° and that the sum of the angles in a quadrilateral total 360°. | <ul style="list-style-type: none"> • I can determine the measure of a missing angle from a triangle OR quadrilateral without the use of a protractor and explain how I know this. | <ul style="list-style-type: none"> • I can determine the measure of a missing angle from a triangle AND quadrilateral without the use of a protractor and explain how I know this. |
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| <p>SS6.2 I can extend and apply understanding of perimeter of polygons, area of rectangles, and volume of right rectangular prisms (concretely, pictorially, and symbolically) including:</p> <ul style="list-style-type: none"> ○ relating area to volume ○ comparing perimeter and area ○ comparing area and volume ○ generalizing strategies and formulae ○ analyzing the effect of orientation ○ solving situational questions. <p>[CN, PS, R, V]</p> | <ul style="list-style-type: none"> • I can represent the perimeter of a polygon concretely AND pictorially. | <ul style="list-style-type: none"> • I can determine strategies OR formulae for determining the perimeter of polygons, including rectangles and squares. | <ul style="list-style-type: none"> • I can determine strategies AND formulae for determining the perimeter of polygons, including rectangles and squares. | <ul style="list-style-type: none"> • I can apply my formula for determining perimeter to other polygons. |
| | <ul style="list-style-type: none"> • I can represent the area of a rectangle concretely OR pictorially. | <ul style="list-style-type: none"> • I can represent the area of a rectangle concretely AND pictorially. | <ul style="list-style-type: none"> • I can determine a formula for determining the area of rectangles, and defend it. | <ul style="list-style-type: none"> • I can apply my formula for determining the area of rectangles to various real-life situations. |
| | <ul style="list-style-type: none"> • I can describe right rectangular prisms. | <ul style="list-style-type: none"> • I can represent the volume of a right rectangular prism concretely AND pictorially. | <ul style="list-style-type: none"> • I can determine a rule (formula) for determining the volume of right rectangular prisms, and defend it. | <ul style="list-style-type: none"> • I can apply my formula for determining the volume of right rectangular prisms to various real-life situations. |
| | <ul style="list-style-type: none"> • With help, I can solve situational questions involving the perimeter of polygons, the area of rectangles, OR the volume of right rectangular prisms. | <ul style="list-style-type: none"> • I can solve situational questions involving the perimeter of polygons, the area of rectangles, OR the volume of right rectangular prisms. | <ul style="list-style-type: none"> • I can solve situational questions involving the perimeter of polygons, the area of rectangles, AND the volume of right rectangular prisms. | <ul style="list-style-type: none"> • I can solve multi-step situational questions involving the perimeter of polygons, the area of rectangles, AND the volume of right rectangular prisms. |
| | <ul style="list-style-type: none"> • With help, I can compare, using models, the relationship between perimeter and area. | <ul style="list-style-type: none"> • I can compare, using models, the relationship between perimeter and area, OR between area and the volume of a right rectangular prism. | <ul style="list-style-type: none"> • I can compare, using models, the relationship between perimeter and area, AND between area and the volume of a right rectangular prism. | <ul style="list-style-type: none"> • I can explain the importance of understanding the relationship between perimeter and area, and between area the volume of a right rectangular prism. |
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| <p>SS6.3 I can demonstrate understanding of regular and irregular polygons including:</p> <ul style="list-style-type: none"> ○ classifying types of triangles ○ comparing side lengths ○ comparing angle measures ○ differentiating between regular and irregular polygons ○ analyzing for congruence. <p>[C, CN, R, V]</p> | <ul style="list-style-type: none"> • Using side lengths and angle measures, I can classify OR draw triangles that are scalene, isosceles, equilateral, right, obtuse, OR acute. | <ul style="list-style-type: none"> • Using side lengths and angle measures, I can classify AND draw triangles that are scalene, isosceles, equilateral, right, obtuse, OR acute. | <ul style="list-style-type: none"> • Using side lengths AND angle measures, I can classify AND draw triangles that are scalene, isosceles, equilateral, right, obtuse, AND acute AND explain my reasoning. | <ul style="list-style-type: none"> • Using side lengths and angle measures, I can prove how the same triangle can be classified in more than one way and explain my thinking. |
| | <ul style="list-style-type: none"> • I can identify regular polygons, and explain why a polygon can be call regular. | <ul style="list-style-type: none"> • I can classify polygons as being regular or irregular. | <ul style="list-style-type: none"> • I can explain the difference between regular and irregular polygons and identify the characteristics of each. | <ul style="list-style-type: none"> • I can prove that a 2D shape is a regular or irregular polygon, or a non-polygon, with extensive reasoning. |
| | <ul style="list-style-type: none"> • I can demonstrate congruency. | <ul style="list-style-type: none"> • I can determine whether or not two polygons are congruent by using side length measures OR angle measures. | <ul style="list-style-type: none"> • I can prove why two polygons are (or aren't) congruent by using side lengths AND angle measures. | <ul style="list-style-type: none"> • I can draw a congruent polygon in a different orientation and prove with multiple reasons why it is congruent. |
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| SS6.4 I can demonstrate understanding of the first quadrant of the Cartesian plane and ordered pairs with whole number coordinates. [C,CN, V] | <ul style="list-style-type: none"> • With help, I can plot different positive points on the Cartesian Coordinate Plane, and identify the coordinates. | <ul style="list-style-type: none"> • I can plot different positive points on the Cartesian Coordinate Plane, and identify the coordinates. | <ul style="list-style-type: none"> • I can plot points in the first quadrant of the Cartesian coordinate plane when given the ordered pairs. | <ul style="list-style-type: none"> • I can create a design in the first quadrant of the Cartesian coordinate plane, label the X and Y axis, identify the ordered pair for each point, AND create instructions on how to reproduce my design. |
| | <ul style="list-style-type: none"> • I can describe how to plot points on the Cartesian plane given a few of the scales (1, 2,) to be used on all the axes. | <ul style="list-style-type: none"> • I can explain how to plot points on the Cartesian plane given some of the scales (1, 2, 5, OR 10) to be used on all the axes. | <ul style="list-style-type: none"> • I can explain how to plot points on the Cartesian plane given all the scales (1, 2, 5, AND 10) to be used on all the axes. | <ul style="list-style-type: none"> • I can transfer my knowledge about how to plot points on the Cartesian plane given the scales 1, 2, 5, AND 10 to another scale I choose. |
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| SS6.5 I can demonstrate understanding of single, and combinations of, transformations of 2-D shapes (with and without the use of technology) including: <ul style="list-style-type: none"> ○ identifying ○ describing ○ performing. [C, CN, R, T, V] | <ul style="list-style-type: none"> • I can demonstrate my understanding of a translation, rotation, OR reflection concretely, pictorially, OR physically. | <ul style="list-style-type: none"> • I can demonstrate my understanding of a translation, rotation, OR reflection concretely, pictorially, AND physically. | <ul style="list-style-type: none"> • I can demonstrate my understanding of a translation, rotation, AND reflection concretely, pictorially, OR physically. | <ul style="list-style-type: none"> • I can demonstrate my understanding of a translation, rotation, and reflection in multiple ways, including concretely, pictorially, AND physically, AND I can provide an example of a translation, rotation, and reflection from my everyday life. |
| | <ul style="list-style-type: none"> • I can identify the one transformation that has been performed on a 2D shape to get the resulting image. | <ul style="list-style-type: none"> • I can perform one transformation on a 2D shape AND draw the resulting image. | <ul style="list-style-type: none"> • I can describe the combination of transformations performed on a 2D shape to get the resulting image. | <ul style="list-style-type: none"> • I can create a design involving a combination of transformations performed on a 2D shape, and give oral or written directions to recreate the design. |
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