**Overarching learning goal (OLG) - Students develop and apply spatial reasoning skills**

Geometry Learning Map - Student Copy

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| Learning Goals | Success Criteria | Approaching Standard/Not Yet | Standard/Met | Exceeding Standard/Mastered |
| I am learning the geometric properties of quadrilaterals so I can sort and classify them.  | I can sort quadrilaterals based on geometric properties (e.g, symmetry, angles, number of sides)I can classify quadrilaterals.I can identify angles in a quadrilateral.I can identify lines of symmetry in a quadrilateral.I can use a variety of tools and strategies to show my thinking. |  |  |  |
| I am learning to sort polygons based upon symmetry.  | I can identify number of lines of symmetry in a polygon.I can identify order of rotational symmetry in a polygon.I can sort polygons based upon lines and rotational symmetry.I can use a variety of tools to show my thinking. |  |   |  |
| Learning Goals | Success Criteria | Approaching Standard/Not Yet | Standard/Met | Exceeding Standard/Mastered |
| I am learning to measure, construct and classify angles.  | I can measure angles up to 180⁰ using a protractor.I can construct angles up to 180⁰ using a protractor.I can classify angles as acute, right, obtuse or straight. |  |  |  |
| I am learning to build 3D shapes when given isometric sketches or different views.  | I can build a 3D model when given different views.I can build a 3D model given isometric sketches.I can replicate a base plan. |  |  |  |
| I am learning to sketch 3D shapes created from cubes given top, right and side views. | I can draw a 3D shape using dot paper, or tinkercad software.I can sketch multiple views of 3D shapes - top side, front. |  |  |  |
| I am learning to describe how a coordinate system represents location.I am learning how to plot coordinate points in the 1st quadrant. | I can plot coordinate pairs in the 1st quadrant.I can explain how a coordinate system represents location. |  |   |  |
| Learning Goals | Success Criteria | Approaching Standard/Not Yet | Standard/Met | Exceeding Standard/Mastered |
| I am learning to rotate a shape clockwise and/or counter clockwise up to 180 degrees.I am learning to identify rotations.I am learning to describe rotations. | I can rotate a shape clockwise or counterclockwise by 90 degrees.I can rotate a shape with the centre of rotation inside the shape by 90 degrees.I can rotate a shape with centre of rotation outside by 90 degree.I can rotate a shape 180.I can describe rotations clockwise/counter clockwise inside or outside of the shape by 90 & 180 degrees. |  |  |  |
| I am learning to analyze designs made by reflections, rotations and translations of shapes. I am learning to create designs made by reflections, rotations and translations of shapes . | I can create designs made by rotation( 90 &/or 180 degrees), reflection and/or translation. I can describe and identify a design by its rotation (90 &/or 180 degrees), reflection and/or translation. |  |  |  |