Year at a Glance: Math - Gr. 7 Student Learning Objectives Clustered by Unit
DOCUMENT KEY: WALT (That) ... indicates a concept. WALT (To) ... indicates a skill.


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| DOCUMENT KEY: WALT (That) ... indicates a concept. WALT (To) ... indicates a skill. |  |  | Unit 1 <br> Operations with Rational Numbers |  | Unit 2 <br> Equations, Inequalities, and TwoDimensional Geometric Concepts |  |  | Unit 3 <br> Proportionality and ThreeDimensional Geometric Concepts |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Key |  |  |  |  |  |  |  |  |  |
|  | Focus - Explicit Instruction and Assessment |  |  |  |  |  |  |  |  |
|  | Revisited and Reinforced |  |  |  |  |  |  |  |  |
|  | Not Addressed in the Unit |  |  |  |  |  |  |  |  |
| NJSLS | SLO | Units | 1A | 1B |  |  |  | 2A | 2B | 2C | 3A | 3B | 3C | 4A | 4B |


| 7.G.A. 1 <br> Solve problems involving scale drawings of geometric figures, including computing actual lengths and areas from a scale drawing and reproducing a scale drawing at a different scale. |
| :---: |
| 7.G.A.2 <br> Draw (with technology, with ruler and protractor, as well as freehand) <br> geometric shapes with given conditions. Focus on constructing triangles <br> from three measures of angles or sides, noticing when the conditions <br> determine a unioue triandle more than one triandle ar no trianole |
| 7.G.A. 3 <br> Describe the two-dimensional figures that result from slicing threedimensional figures, as in plane sections of right rectangular prisms and right rectangular pyramids. |

WALT solve problems involving scale drawings of geometric figures includ computing actual lengths and areas from a scale drawing and reproducing a scale drawing at a different scale

WALT draw geometric shapes with given conditions with technology, with WALT construct triangles from three measures of angles or sides using WALT construct triangles from three measures of angles or sides using rulers

WALT describe the two-dimensional figures that result from slicing threedimensional figures, as in plane sections of right rectangular prisms and right rectangular pyramids

| 7.G.B. 4 |
| :--- |
| Know the formulas for the area and circumference of a circle and use <br> them to solve problemss give an informal derivation of the relationship <br> between the circumference and area of a circle. |


| 7.G.B. 5 <br> Use facts about supplementary, complementary, vertical, and adjacent angles in a multi-step problem to write and solve simple equations for an unknown angle in a figure. |
| :---: |


| WALT know the formulas for area and circumference of a circle |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| WALT solve problems using the formula for circumference of a circle and for |  |  |  |  |  |  |  |  |  |  |  |
| WALT informally derive the relationship between the circumference and area |  |  |  |  |  |  |  |  |  |  |  |


| WALT supplementary angles are two angles whose sum is 180 degrees and complementary angles are two angles whose sum is 90 degrees |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| WALT vertical angles, the pairs of opposite angles made by two intersecting |  |  |  |  |  |  |  |  |  |  |  |
| WALT adjacent angles are two angles that share a vertex and a side |  |  |  |  |  |  |  |  |  |  |  |
| WALT use facts about supplementary, complementary, vertical and adjacent angles in a multi-step problem to write and solve simple equations for an unknown angle in a figure |  |  |  |  |  |  |  |  |  |  |  |

7.G.B. 6

| Solve real-world and mathematical problems involving area, volume |
| :--- |
| and surface area of two and three-dimensional objects composed of |

triangles, quadrilaterals, polygons, cubes, and right prisms.
WALT solve real-world and mathematical problems involving volume and WALT solve real-world and mathematical problems involving area of twodimensional objects composed of triangles, quadrilaterals, and polygons

## 7.SP.A. 1

Understand that statistics can be used to gain information about a population by examining a sample of he population, generailization
about a population from a sample are valid only if the sample is representative of that population. Understand that random sampling tends to produce representative samples and support valid inferences.

## STATISTICS and PROBABILITY

 sample of the populationWALT generalizations about a population from a sample are valid only if the sample is representative of that population

WALT random sampling tends to produce representative samples of the population and support valid inferences

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