KENOSHA UNIFIED SCHOOL DISTRICT NO. 1
CURRICULUM & INSTRUCTIONAL SERVICES

STANDARDS AND BENCHMARKS
MATHEMATICS

GEOMETRY
STANDARD A: MATHEMATICAL PROCESS
Representation, Reasoning, Problem Solving
Communication, Connections
I can use reasoning and logic to formulate, analyze, and solve problems, and to test the reasonableness of my results. ***A-1.10***
I can clearly communicate mathematical concepts either orally or in written form. ***A-2.10***
I can use a computer or a calculator as a problem-solving tool. ***A-3.10***
I can read and interpret mathematical text and other mathematical representations (e.g., numbers, symbols, diagrams, models). ***A-4.10***
STANDARD B: NUMBER OPERATIONS AND RELATIONSHIPS
Number Concepts
Number Computation
I can analyze and solve problems using proportional reasoning. ***B-1.10***
I can select and use appropriate computational procedures. ***B-2.10***
I can determine the reasonableness of answers. ***B-3.10***
I can use mental math. ***B-4.10***
STANDARD C: GEOMETRY
Two- and Three-Dimensional Figures
Spatial Relationships and Transformations
Coordinate Systems
I can identify, describe and analyze properties of two- and three-dimensional figures, relationships among figures, and relationships among their parts (e.g., parallel, perpendicular and congruent sides, diagonals, various types of angles and triangles, complementary and supplementary angles, and the sum of angles in a triangle and other polygons). ***C-1.10***
I can present convincing geometric arguments (e.g., two-column proof, informal proof, and counterexamples). ***C-2.10***

GEOMETRY
I can use proportional reasoning to solve congruence and similarity problems. ***C-3.10***
I can sketch two- and three-dimensional figures accurately. ***C-4.10***
I can use a coordinate plane and algebraic procedures to describe and characterize geometric properties and relationships (e.g., slope, parallelism, perpendicularity, distance formula, midpoint). ***C-5.10***
I can identify transformations on the coordinate plane. ***C-6.10***
I can transform objects on the coordinate plane. ***C-7.10***
STANDARD D: MEASUREMENT
Measurable Attributes/Units
Direct Measurement
Indirect Measurement
I can select and use the appropriate measurement tools (e.g., ruler and protractor). ***D-1.10***
I can measure with the appropriate degree of precision (1/16 inch and millimeter). ***D-2.10***
I can determine the perimeter of a regular polygon and the circumference of a circle. ***D-3.10***
I can determine the area of a regular polygon and the area of a circle. ***D-4.10***
I can determine the surface area of three-dimensional figures (e.g., right prisms, right pyramids, spheres, cylinders, and cones). ***D-5.10***
I can determine the volume of three-dimensional figures (e.g., prisms, pyramids, spheres, cylinders, and cones). ***D-6.10***
I can find the measures of side lengths and angles in similar polygons. ***D-7.10***
I can find the measures of angles, arcs, and segments as they relate to circles. ***D-8.10***
I can find measurements indirectly (e.g., congruent and similar triangles). ***D-9.10***
I can use right-triangle trigonometry to solve problems (e.g., triangles, angle of elevation, and angle of depression). ***D-10.10***

GEOMETRY
I can use the distance and midpoint formulas. ***D-11.10***
I can use the relationships in special right triangles (45-45-90 and 30-60-90) to find missing lengths. ***D-12.10***
STANDARD E: STATISTICS AND PROBABILITY
Data Analysis and Statistics
Probability
I can express conditional statements using Venn Diagrams. ***E-1.10***
I can use lengths and areas to find geometric probabilities. ***E-2.10***
STANDARD F: ALGEBRAIC RELATIONSHIPS
Patterns, Relations, and Functions
Expressions, Equations, Inequalities
Properties
I can justify the steps to solve an equation using the properties of equality. ***F-1.10***