Grade 5 Math Unit 1
Canterbury Public Schools

Subject	Mathematics
Grade Level	Five
Unit Title	Geometry
Unit Goals	Understand that an ordered pair indicates a specified location on the coordinate plane. Identify attributes of polygons based on properties Understand intervals on a coordinate plane Create/utilize a coordinate plane based on real-world context Interpret the values of the points based on real-world context Understand how the hierarchy of shapes is developed and how the hierarchy can be used in problem solving
Pacing (# of weeks)	6 weeks
Standards	5G.A.1 Understand and use coordinate plane: identify the x and y axis on a coordinate plane and the origin at the point where they insect. Understand that the intervals on the axis indicate a scale. Associate the x coordinate with a location on the x axis and the y coordinate with the location parallel to the y axis. Understand that an ordered pair indicates a specified location on the coordinate plane. 5G.A.2 Represent problems on the coordinate plane: Recognize the related numbers can be graphed as ordered pairs; represent ordered pairs on the coordinate plane to show relationships; graph points in the first quadrant of the coordinate plane to solve problems; understand the meanings of ordered pairs in contextual situations. 5G.A3 understand attributes of 2 dimensional figures; 5GA.4 classify 2 dimensional figures using properties Math Practices: make sense of problems and persevere in solving them Reason abstractly and quantitatively, construct viable arguments and critique the reasoning of others.
Content/Conceptual Knowledge (know)	Grade 4: Characteristics of square, rectangle, triangle, circle, hexagon, octagon, open and closed figures, characteristics that are shared. Name the different types of triangles, draw points, lines, line segments, rays and angles, (right angles) perpendicular and parallel lines, two D figures. Recognize a line of symmetry for a 2 D figure and identify lines symmetric figures.Draw lines of symmetry.

	Grade 5 That shapes have certain characteristics that make them unique How a coordinate plane is used in math How to plot points Shapes share characteristics which create the hierarchy Shapes can be open or closed
Skills (be able to do)	Grade 4 expectations of learning Identify shapes by characteristic Compare and contrast shapes Draw shapes, draw rays, line segments Identify angles Recognize 2 D figures Identify and draw a line of symmetry Grade 5 Name and define what makes shapes unique: angle,side, lengths, Compare and contrast regular and irregular polygons Name polygons based on their characteristics Use the hierarchy to describe a shape as being part of more than 1 category Plot a point on a coordinate plane using x and y axes/ordered pairs, what does it mean in a real-world context Identify the axes and origin- create an interval
Essential Questions	How do mathematicians identify polygons and geometric shapes? How can mathematicians use a coordinate plane to plot points and problem solve?
Enduring Understandings	Mathematicians recognize that shapes make up our world.
Vocabulary	(useful, essential, important) Congruent, parallel lines, perpendicular, angle, obtuse, right, rays, acute, right angle, vertices, plane, axes, origin, interval, coordinate, symmetry, quadrant, ordered pairs, coordinate plane, coordinate pairs,rhombus, polygon, isosceles,

	equilateral, scalene, trapezoid, parallelogram, quadrilateral, triangle, heptagon, polygon, nonagon, regular polygons, irregular polygon, adjacent,edge,
Common Learning Experiences broken down by standard addressed in the unit	(learning target, lesson structure, strategy implementation) Math talks Puzzles and task, word problems, review /practice, review games, sorting activities, small group direct instruction
Assessments	(formative/summative; for example: NWEA Map-skills checklist, benchmarks, unit assessments, essay questions, performance based) Benchmarks, Georgia performance tasks,
Resources	(technology)Prodigy,
Student Resources	(place value mats, concrete material) Student texts, Georgia tasks, games , task cards, puzzles, manipulatives, Math notebooks; practice problems/examples, steps on problem solving, word problems in notebooks
Teacher Resources	For example:Texts, literature, math mats Teachers Pay Teachers, Georgia tasks, Go Math
Strategies	Class groupings, math talks, small and large groups, Compare and contrast, re read problems like they are reading a story, draw pictures, use manipulatives, draw a representation, sorting activities
Behaviors	Perseverance, problem solve, attend to task, turn and talk, cooperate, take turns Be respectful, use math tools correctly,