Canterbury Public Schools
Math Grade 7 Unit 1

Subject	Math
Grade Level	7
Unit Title	Scale Drawings
Unit Goals	Make scaled copies Creating scaled drawings Represent a scaled copy for a given scale factor Represent distances using different scales Represent relevant features of a classroom with a scale drawing Generalize: About corresponding distances and angles i scaled copies About scale factors greater than, less than, and equal to 1 About scale factors and area About scale factors with and without units Explain: How to use scale drawings to find actual distances How to use scale drawing to find actual distances, speed, and elapsed time How to use scale drawings to find actual areas Describe features of scaled copies, justify and critique reasoning about scaled spies, and compare how different scales affect drawings. Comprehend the phrase "scale factor" and explain how it relates corresponding lengths of a figure and its scaled copy
Pacing (# of weeks)	6 weeks (approx)
Standards	7.G.A.1., 7. RP.A.2, 5.NBT.B.7..6.., 5.NF.B.4, 6.NS.B.3, 5.NF.B.5, 6.NF.A.1, 7.G.B.4, 7.G.B.6, 7.RP.A.2.a, 6.G.A.1, 7.RP.A.2.b, 6.NS.B.2, 6. RP.A.3.b, 3.NF.A.3, 5.NBT.A.3, 7.G.B.6, 7.RP,.A.3, 2.MD.A, 6.RP.A.3.d,
Content/Conceptual Knowledge (know)	Ratios are part of scaled drawings Polygons attributes Area and perimeter are measurements of polygons Reciprocity of numbers
Skills (be able to do)	Describe some characteristics of a scaled copy

	Tell whether or not a figure is a scaled copy of another figure Describe what the scale factor has to do with a figure and its scaled copy Identify corresponding points, corresponding segments and corresponding angles
Essential Questions	What is a scaled copy? What are some characteristics of scaled copies? How are they different from figures that are not scaled copies? What specific information did you look for when determining if something was a scaled copy of an original?
Enduring Understandings	Scaled (copies) drawings have a relationship to its original dimensions Polygons are shapes
Vocabulary	Scaled copy, corresponding, scale factor, area, reciprocal, scale drawings, scale, original, polygon, figure, segment, quadrilateral, measurement, distance, one-dimensional, two-dimensional, represent, actual, three-dimensional, estimate, travel, constant speed, floor plan, appropriate, dimension, scale without units, equivalent scale,
Common Learning Experiences	Think, pair, share, warm-ups, learning tasks: scaling, matching pairs of shapes, take turns, take turns, math talks, collect and display, stronger and clearer each time, notice and wonder, card sort, compare and contrast, critique , correct and clarify,
Assessments	Readiness, End of unit assessment, quizzes, cool downs, check points, mid unit assessments, teacher made quizzes
Student Resources	Graph paper, measuring tools, metric and customary unit conversion charts Pattern blocks, rulers, patty paper,
Teacher Resources	Smart board, document camera, graph paper, colored paper,