Grade 6
Math Unit 5
Canterbury Public Schools

Subject	Math
Grade Level	6
Unit Title	Arithmetic in Base Ten
Unit Goals	<u>Warming Up to Decimals</u> <u>Use decimals</u> Compute with decimals Use diagrams to represent addition and subtraction Add and subtract decimals with few non-0 digits Add and subtract decimals with many non-0 digits <u>Multiply Decimals</u> Use decimal points in products Use diagrams to represent multiplication Calculate products of decimals Powers of 1 Equivalent expressions <u>Divide Decimals</u> Use partial quotients method Use long division Divide decimals by whole numbers Divide decimals by decimals <u>Review</u> Use operations on decimals to solve problems Make and measure boxes
Pacing (# of weeks)	6-8 weeks
Standards	6.NS.B compute fluently with multi digit numbers and find common factors and multiples 6.NS.B.3 Fluently add, subtract, multiply and divide multi-digit decimal using the standard algorithm for each operation 6.NS.B.2 fluently divide multi-digit numbers using the standard algorithm 6.EE.A apply and extend previous understandings of arithmetic to algebraic expressions

Content/Conceptual Knowledge (know)	That you can use decimals to make estimates and calculations Operations and the structure of base-ten numbers The number of decimal places in the factors can help place decimal points in the product.
Skills (be able to do)	Calculate sums and products of decimals in the context of money, and explain the calculation strategy Justify the product of two decimals, which each have only one non-zero digit by multiplying equivalent fractions that have a power of 10 in the denominator Use the partial quotients method to find a quotient of whole numbers when the quotient is a whole number Divide numbers that result in decimals
Essential Questions	What are the best strategies for multiplying digital numbers? How can using place value help determine the sum, difference, ,product or quotient of adding, subtracting, multiplying and dividing decimals? What is a quotient and how do I calculate one? How do I know where to place a decimal point?
Enduring Understandings	The number of decimal places in a product is related to the number of decimal places in the factors Use place value and fractions to reason about multiplication of decimals
Vocabulary	Digits, budgets, at least, base - ten diagram, bundle, vertical calculator Unbundle, method, powers of 10, partial products, partial quotients, long division, precision, accuracy, operation
Common Learning Experiences	Warm - ups and cool downs, class discussions, daily lessons
Assessments	Check ins, cool downs, mid unit assessments,
Resources	Newspaper ads,
Strategies	Think Pair Share,