

Do the Math Kits Available in KCS Elementary Schools 2019-2020

<i>Do the Math Kit</i>	<i>Objectives</i>
Number Core	<ul style="list-style-type: none"> • Develop mental representations of numbers using benchmarks of 5 and 10 • Think flexibly about how to compose and decompose quantities • Build facility with figuring sums to 20 • Apply the inverse property of addition and subtraction • Communicate key math vocabulary: add, difference, equals, equation, one-digit number, place value, subtract, sum, two-digit number
Addition & Subtraction A	<ul style="list-style-type: none"> • Identify pairs of numbers with sums of 10 • Write any two-digit number as tens and ones • Calculate the sum to 99 for any two or three addends • Solve word problems with two or three addends with sums to 99 • Communicate ideas with key math vocabulary: add, addition, equation, plus, equals, sum, addend, multiplies of 10
Addition & Subtraction B	<ul style="list-style-type: none"> • Use the inverse relationship of addition and subtraction to calculate sums and differences • Calculate differences between numbers up to 100 • Write and solve comparing, take-away, and part-part-whole word problems. • Communicate ideas with key math vocabulary: subtract, subtraction, subtraction equation, minus, difference
Addition & Subtraction C	<ul style="list-style-type: none"> • Read and write numbers to 999,999 • Use the Commutative Property of Addition and the Associative Property of Addition to solve problems • Calculate sums and differences for numbers to 9,999 • Communicate ideas with key math vocabulary: expanded form, digit, place value, equation, rounded number • Solve addition and subtraction word problems with numbers to 999,999
Multiplication A	<ul style="list-style-type: none"> • Calculate products with factors 1 through 6 • Communicate ideas with key math vocabulary: Commutative Property of Multiplication, equal, factor, multiplication, multiplication equation, multiply, product, and times. • Represent combining equal groups with related addition and multiplication equations. • Write a multiplication equation for a word problem. • Write a word problem for a given multiplication equation. • Calculate products when one factor is 0. • Apply the Commutative Property of Multiplication using factors 0 through 6
Multiplication B	<ul style="list-style-type: none"> • Calculate products with factors 0 through 12 • Represent arrangements of equal rows and rectangles with multiplication equations • Communicate ideas with key math vocabulary: multiplication equation, factor, product, Commutative Property of Multiplication, square number, multiple, Zero Property of Multiplication • Use the Commutative Property of Multiplication to solve problems. • Recall products for facts through 12 x 12

Division B	<ul style="list-style-type: none"> • Write related multiplication and division equations • Calculate quotients and remainders for two-digit numbers divided by one-digit divisors • Use the inverse relationship between division and multiplication to solve problems • Determine whether one number is divisible by another • Represent sharing and grouping situations as division • Solve division-sharing problems and division grouping problems • Communicate ideas with key math vocabulary: division equation, dividend, divisor, quotient, remainder, and divisible
Fractions A*	<ul style="list-style-type: none"> • Name parts of a whole as fractions and use standard notation • Identify equivalent fractions. • Compare and order fractions. Use benchmarks of $\frac{1}{2}$ and 1. • Add fractions • Solve problems using fractions • Communicate key mathematical vocabulary: whole, numerator, denominator, fraction bar, mixed number, is less than, is greater than, and fraction names
Fractions B	<ul style="list-style-type: none"> • Name parts of the whole and parts of a set as fractions • Compare and order fractions using benchmarks, common numerators, common denominators, and fractions one unit away from 1 whole • Identify equivalent fractions • Solve problems using fractions • Communicate ideas with key math vocabulary: numerator, denominator, common numerator, denominator, unit fraction, improper fraction, mixed number, equivalent and common denominator

*Fractions are limited to fractions with denominators of 1, 2, 3, 4, 6, 8, 12, 16