CORE@TCA SIDE BY SIDE STANDARDS
1st /2nd/ 3rd Grade
Essential Standards
Mathematics

Based on State Key Content Standards compiled by the Pulliam Group

Strand	Standard 1st Grade	Standard 2nd Grade	Standard 3rd Grade
Number Sense	1.1 Count, read and write whole numbers to 100 1.2 Compare and order whole numbers to 100 using (<,=, >) 2.1 Memorize additions facts (sums to 20) and corresponding subtraction facts 2.2 Use the inverse relationship between addition and subtraction to solve problems 2.3 Identify one more than, one less than, 10 more than, and 10 less than a given number 2.4 Count orally by ones, twos, fives, and tens to 100 2.5 Show the meaning of addition (increasing) and subtraction (taking away, finding the difference)	1.1 Count, read, write, and identify place value of numbers to 1000 1.2 Compare and order whole numbers to 1000 using (<,=,>) 2.1 Understand the inverse relationship between addition and subtraction 2.2 Find the sum and difference of whole numbers up to 3 digits 3.1 Use repeated addition, arrays, and counting by multiples to do multiplication 3.2 Use repeated subtraction, equal sharing, and forming equal groups with remainders to do division 4.1 Recognize, name, and unit fractions from 1/12 to ½ 4.2 Recognize fractions of a whole and parts of a group (1/4 of a pie) 4.3 Know that when all fractional parts are included, such as 4/4, the result is one 5.1 Solve problems using combinations of coins and bills 5.2 Use the decimal notation and dollar and cent symbols for money	1.1 Count, read and write whole numbers to 10,000 1.2 Compare and order whole numbers to 10,000 using (<=>) 1.3 Identify the place value for each digit in numbers to 10,000 1.5 Use expanded notation to represent numbers 2.1 Find the sum or difference of two whole numbers between 0 and 10,000 2.2 Memorize multiplication table for numbers between 1 and 10 2.3 Use the inverse relationship of multiplication and division to solve problems 2.4 Multiply and divide one-digit numbers by multi-digit numbers. 3.2 Compare, add, and subtract simple fractions 3.3 Solve problems involving addition, subtraction, multiplication, and division of money amounts in decimal notation
Algebra and functions	1.1 Write and solve addition and subtraction number sentences 1.2 Understand the symbols: +, -, =	1.1 Use the commutative and associative properties of addition 1.2 Relate problem situations to number sentences	1.1 Represent relationships of quantities in the form of mathematical expressions, equations, or inequalities 2.1 Solve simple problems involving the relationship between two quantities (e.g., find the total cost of multiple items given the cost per unit)
Measurement and Geometry	1.1 Compare the length, weight, and volume of two or more objects 1.2 Tell time to the nearest half hour 2.1 Identify, describe, and compare triangles, rectangles, squares, and circles 2.2 Classify familiar plane and solid objects by attributes 2.3 Give and follow directions about location	1.1 Measure length by repeating a nonstandard or standard unit of measure 1.3 Measure the length of an object to its nearest inch/centimeter 2.1 Describe and classify geometric shapes according to the number and shape of faces, edges, and vertices 2.4 Put shapes together and take them apart to form other shapes	1.2 Estimate the area and volume of solid figures by covering them with squares or by counting the number of cubes that would fill them 1.3 Find the perimeter of a polygon 2.1 Identify, describe, and classify polygons (pentagons, hexagons, and octagons) 2.2 Identify the attributes of triangles 2.3 Identify the attributes of quadrilaterals
Statistics, Data Analysis, and Probability	2.1 Describe, extend, and explain how to get to a next element in a repeating pattern 1.2 Represent and compare data using simple graphs	1.0 Collect, organize and display data on bar graphs and charts 2.1 Describe and extend patterns and determine a next term in number patterns	1.2 Record the possible outcomes for a simple random event 1.3 Summarize and display the results of probability experiments in a clear and organized way (e.g., use a bar graph or a line plot)
Mathematical Reasoning	1.0 Make decisions about how to set up problem 2.0 Solve problems and justify their reasoning	1.0 Make decisions about how to set up a problem 2.0 Solve problems and justify their reasoning	1.0 Make decisions about how to set up a problem 2.0 Use strategies, skills and concepts in finding solutions