Content Strands Grades PK - 2 – Benchmark Scope and Sequence

	PK	KG	1	2
1. Numbers and Operations				
Counting and Cardinality	▪	▪ Know number names and the count sequence ▪ Count to tell the number of objects ▪ Compare numbers		
Number and Operations (Base 10)	▪	▪ Work with numbers 11-19 to gain foundations for place value	▪ Extend the counting sequence ▪ Understand place value ▪ Use place value understanding and properties of operations to add and subtract	▪ Understand place value ▪ Use place value understanding and properties of operations to add and subtract
2. Algebra				
Operations and Algebraic Thinking	▪	▪ Understand addition as putting together and adding to ▪ Understand subtraction as taking apart and taking from	▪ Represent and solve problems involving addition and subtraction ▪ Understand and apply properties of operations and the relationship between addition and subtraction ▪ Add and subtract within 20 ▪ Work with addition and subtraction equations	▪ Represent and solve problems involving addition and subtraction (within 100) ▪ Add and subtract within 20 ▪ Work with equal groups of objects to gain foundations for multiplication
3. Measurement and Data Analysis				
Measurement and Data	▪	▪ Describe and compare measurable attributes ▪ Classify objects and count the number of objects in categories	▪ Measure lengths indirectly and by iterating length units ▪ Tell and write time ▪ Represent and interpret data	▪ Measure and estimate lengths in standard units ▪ Relate addition and subtraction to length ▪ Work with time and money ▪ Represent and interpret data
4. Geometry				
Geometry	▪	▪ Identify and describe shapes ▪ Analyze, compare, create, and compose shapes	▪ Reason with shapes and their attributes	▪ Reason with shapes and their attributes

Content Strands Grades 3 – 5 – Benchmark Scope and Sequence

	3	4	5
1. Numbers and Operations			
Number and Operations (Base 10)	▪ Use place value understanding and properties of operations to perform multi-digit arithmetic	▪ Generalize place value understanding for multi-digit whole numbers. ▪ Use place value understanding and properties of operations to perform multi-digit arithmetic.	▪ Understand the place value system. ▪ Perform operations with multi-digit whole numbers and with decimals to hundredths.
Number and Operations Fractions	▪ Develop understanding of fractions as numbers	▪ Extend understanding of fraction equivalence and ordering. ▪ Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers. ▪ Understand decimal notation for fractions, and compare decimal fractions.	▪ Use equivalent fractions as a strategy to add and subtract fractions. ▪ Apply and extend previous understandings of multiplication and division to multiply and divide fractions.
2. Algebra			
Operations and Algebraic Thinking	▪ Represent and solve problems involving multiplication and division ▪ Understand properties of multiplication and the relationship between multiplication and division ▪ Multiply and divide within 100 ▪ Solve problems involving the four operations, and identify and explain patterns in arithmetic	▪ Use the four operations with whole numbers to solve problems. ▪ Gain familiarity with factors and multiples. ▪ Generate and analyze patterns.	▪ Write and interpret numerical expressions. ▪ Analyze patterns and relationships.
3. Measurement and Data Analysis			
Measurement and Data	▪ Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects. ▪ Represent and interpret data. ▪ Geometric measurement: understand concepts of area and relate area to multiplication and to addition. ▪ Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.	▪ Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit. ▪ Represent and interpret data. ▪ Geometric measurement: understand concepts of angle and measure angles.	▪ Convert like measurement units within a given measurement system. ▪ Represent and interpret data. ▪ Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition.
4. Geometry			
Geometry	▪ Reason with shapes and their attributes	▪ Draw and identify lines and angles, and classify shapes by properties of their lines and angles.	▪ Graph points on the coordinate plane to solve real-world and mathematical problems. ▪ Classify two-dimensional figures into categories based on their properties.

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