

Kindergarten

Major	Supporting	Additional
<p>Counting and Cardinality</p> <ul style="list-style-type: none"> ☒ Know number names and count sequence. ☒ Count to tell the number of objects. ☒ Compare numbers. <p>Operations and Algebraic Thinking</p> <ul style="list-style-type: none"> ☒ Understand addition as putting together and adding to, and understand subtraction as taking apart and taking from. <p>Number and Operations in Base Ten</p> <ul style="list-style-type: none"> ☒ Work with numbers 11-19 to gain foundations for place value. 	<p>Geometry</p> <ul style="list-style-type: none"> ☐ Identify and describe shapes. ☐ Analyze, compare, create, and compose shapes. 	<p>Measurement and Data</p> <ul style="list-style-type: none"> ○ Describe and compare measurable attributes. ○ Classify objects in categories.

Depth Opportunities:

CC 4, 5, 6; OA 2, 4

Grade 1

Major	Supporting	Additional
<p>Operations and Algebraic Thinking</p> <ul style="list-style-type: none"> ☛ 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. <p>Number and Operations in Base Ten</p> <ul style="list-style-type: none"> ☛ Extend the counting sequence. ☛ Understand place value. ☛ Use place value understanding and properties of operations to add and subtract. <p>Measurement and Data</p> <ul style="list-style-type: none"> ☛ Measure lengths indirectly and by iterating length units. 	<p>Geometry</p> <ul style="list-style-type: none"> ☐ Reason with shapes and their attributes. 	<p>Measurement and Data</p> <ul style="list-style-type: none"> ○ Tell and write time. ○ Represent and interpret data.

Depth Opportunities:

OA 1, 6; NBT 2, 4; MD 2

Grade 2

Major	Supporting	Additional
<p>Operations and Algebraic Thinking</p> <ul style="list-style-type: none"> ☛ Represent and solve problems involving addition and subtraction. ☛ Add and subtract within 20. ☛ Work with equal groups of objects to gain foundations for multiplication. <p>Number and Operations in Base Ten</p> <ul style="list-style-type: none"> ☛ Understand place value. ☛ Use place value understanding and properties of operations to add and subtract. <p>Measurement and Data</p> <ul style="list-style-type: none"> ☛ Measure and estimate lengths in standard units. ☛ Relate addition and subtraction to length. 	<p>Geometry</p> <ul style="list-style-type: none"> ☐ Reason with shapes and their attributes. 	<p>Measurement and Data</p> <ul style="list-style-type: none"> ☐ Work with time and money. ☐ Represent and interpret data.

Depth Opportunities:

OA 1, 2; NBT 1, 7; MD 5

Grade 3

Major	Supporting	Additional
<p>Operations and Algebraic Thinking</p> <ul style="list-style-type: none"> ☛ Represent and solve problems involving multiplication and division. ☛ Understand the 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. <p>Number and Operations – Fractions</p> <ul style="list-style-type: none"> ☛ Develop understanding of fractions as numbers. <p>Measurement and Data</p> <ul style="list-style-type: none"> ☛ Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects. ☛ Geometric measurement: understand concepts of area and relate area to multiplication and to addition. 	<p>Geometry</p> <ul style="list-style-type: none"> ☐ Reason with shapes and their attributes.¹ <p>Measurement and Data</p> <ul style="list-style-type: none"> ☐ Represent and interpret data.² 	<p>Number and Operations in Base Ten</p> <p>Use place value understanding and properties of operations to perform multi-digit arithmetic.</p> <p>Measurement and Data</p> <p>Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.</p>

Depth Opportunities:

OA 3, 6; NF 3; MD 2, 7

¹ Work should be positioned in support of area measurement and understanding of fractions.

² Students multiply and divide to solve problems using information presented in scaled bar graphs. Pictographs and scaled bar graphs are a visually appealing context for one- and two-step word problems.

Grade 4

Major	Supporting	Additional
<p>Operations and Algebraic Thinking</p> <ul style="list-style-type: none"> ☛ Use the four operations with whole numbers to solve problems. <p>Number and Operations in Base Ten</p> <ul style="list-style-type: none"> ☛ Generalize place value understanding for multi-digit whole numbers. ☛ Use place value understanding and properties of operations to perform multi-digit arithmetic. <p>Number and Operations – Fractions</p> <ul style="list-style-type: none"> ☛ 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. 	<p>Operations and Algebraic Thinking</p> <ul style="list-style-type: none"> ☐ Gain familiarity with factors and multiples.³ <p>Measurement and Data</p> <ul style="list-style-type: none"> ☐ Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit. ☐ Represent and interpret data.⁴ 	<p>Operations and Algebraic Thinking</p> <ul style="list-style-type: none"> ○ Generate and analyze patterns. <p>Measurement and Data</p> <ul style="list-style-type: none"> ○ Geometric measurement: understand concepts of angles and measure angles. <p>Geometry</p> <ul style="list-style-type: none"> ○ Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Depth Opportunities:

NBT 5, 6; NF 1, 3, 4

³ Work in this cluster supports students' work with multi-digit arithmetic as well as their work with fraction equivalence.

⁴ The standard in this cluster requires students to use a line plot to display measurements in fractions of a unit and to solve problems involving addition and subtraction of fractions, connecting it directly to the Number and Operations – Fractions clusters.

Grade 5

Major	Supporting	Additional
<p>Number and Operations in Base Ten</p> <ul style="list-style-type: none"> ☒ Understand the place value system. ☒ Perform operations with multi-digit whole numbers and with decimals to hundredths. <p>Number and Operations – Fractions</p> <ul style="list-style-type: none"> ☒ 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. <p>Measurement and Data</p> <ul style="list-style-type: none"> ☒ Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition. 	<p>Measurement and Data</p> <ul style="list-style-type: none"> ☐ Represent and interpret data.⁵ ☐ Convert like measurement units within a given measurement system.⁶ 	<p>Operations and Algebraic Thinking</p> <ul style="list-style-type: none"> ☐ Write and interpret numerical expressions. ☐ Analyze patterns and relationships. <p>Geometry</p> <ul style="list-style-type: none"> ☐ Graph points on the coordinate plane to solve real-world and mathematical problems. ☐ Classify two-dimensional figures into categories based on their properties.

Depth Opportunities:

NBT 1, 6; NF 2, 4; MD 5

⁵ The standard in this cluster provides an opportunity for solving real-world problems with operations on fractions, connecting directly to both number and Operations – Fractions clusters.

⁶ Work in these standards supports computation with decimals. For example, converting 5 cm to .05 m involves computation with decimals to hundredths.