

Grade 3 Math Year at a Glance (2019 - 2020)

In grade 3, instructional time should focus on four critical areas: (1) developing understanding of multiplication and division and strategies for multiplication and division within 100; (2) developing understanding of fractions, especially unit fractions (fractions with numerator 1); (3) developing understanding of the structure of rectangular arrays and of area; and (4) describing and analyzing two-dimensional shapes.

The purpose of this document is to give a general overview of topics, standards, time intervals and assessments for the year. Please reference the curriculum maps for details on implementation of each unit.

Note that the chapter on Mental Math has been removed. This unit should be replaced with time spent throughout the year on [Number Talks, estimation tasks, and rounding](#).

Units may have been extended by several days that should be used throughout the unit for reteaching and extending as needed, as well as Number Talks and estimation tasks.

It is recommended that teachers use classroom routines / games to teach telling time throughout the year, otherwise it is not taught until June.

<u>Units</u>	<u>Dates & Duration</u>	<u>Days</u>	<u>MIF Chapter # and Title</u>	<u>Includes Critical Areas</u>	<u>Standards: Number; phrase: “critical” standards starred*</u>	<u>Assessment</u>
Optional: Week of Inspirational Math 3	9/3 - 9/10	5 days	Week of Inspirational Math 3 , Grades 3-5		These activities and conversations are designed to introduce students to a positive math community, and to help students develop a positive attitude toward math and their own abilities.	

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<p>Unit 1</p> <p>Ch 15 (from grade 2)</p> <p>some of Ch 13 (from Grade 3; links to science unit)</p> <p>Ch 1 (from grade 3)</p> <p>9/11-10/31</p>	9/11 - 9/30	13 days	Ch. 15: Grade 2 Multiplication Tables of 3 and 4	Yes	3.OA.A.1 Interpret products of whole numbers 3.OA.A.2 Interpret whole # quotients of whole # 3.OA.A.3 Use multiplication and division within 100 to solve word problems 3.OA.A.4 Determine the unknown whole number in a multiplication or division equation 3.OA.B.5 Apply properties of operations as strategies to multiply and divide 3.OA.B.6 Understand division as an unknown factor 3.OA.C.7 - Fluently multiply and divide within 100 3.OA.D.9 Identify arithmetic patterns	<p><u>9/3 – 10/18:</u> FAST Screener-aMath <i>All Students</i></p>
	10/1-10/7	5 days	Ch 13: Bar Graphs (chapter opener, 13.1, and 13.2)	No	3.MD.B.3 Draw picture and bar graphs to represent a data set	
	10/8 - 10/31	15 days	Ch. 1: Numbers to 10,000	No	3.NBT.A.1 Use place value understanding to round whole numbers 3.NBT.A.2 - Fluently add and subtract within 1000, using strategies based on place value 3.OA.D.9 Identify arithmetic patterns	
<p>Unit 2</p> <p>Ch 3, 4 & 5</p> <p>11/1 - 12/5</p>	11/1 - 12/5	20 days	Ch. 3: Addition to 10,000, Ch.4: Subtraction to 10,000 Ch. 5: Using Bar Models: Addition and Subtraction	No	3.NBT.A.2 - Fluently add and subtract within 1000, using strategies based on place value 3.OA.D.8 Solve two step word problems using the four operations	
<p>Unit 3</p> <p>Ch. 6, 7, 8 & 9</p> <p>12/6 - 2/7</p>	12/6-1/15	20 days	Ch. 6: Multiplication Tables of 6, 7, 8, 9 Ch 7: Multiplication	Yes	3.OA.A.1 Interpret products of whole numbers 3.OA.A.2 Interpret whole # quotients of whole # 3.OA.A.3 Use multiplication and division within 100 to solve word problems 3.OA.A.4 Determine the unknown whole number in a multiplication or division equation 3.OA.B.5 Apply properties of operations as strategies to multiply and divide 3.OA.B.6 Understand division as an unknown factor 3.OA.C.7 - Fluently multiply and divide within 100 3.OA.D.9 Identify arithmetic patterns 3.NBT.A.3 Multiply one digit whole numbers by multiples of 10	<p><u>By 12/20:</u> Common Interim Assessment</p>

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	1/16 - 1/30	10 days	Ch 8: Division	Yes	3.OA.A.3 Use multiplication and division within 100 to solve word problems 3.OA.A.4 Determine the unknown whole number in a multiplication or division equation 3.OA.B.5 Apply properties of operations as strategies to multiply and divide 3.OA.B.6 Understand division as an unknown factor 3.OA.C.7 - Fluently multiply and divide within 100 3.OA.D.9 Identify arithmetic patterns	1/2 - 1/24: FAST Screener-aMath (OPTIONAL)
	1/31 - 2/7	5 days	Ch 9: Using Bar Models: Multiplication and Division	Yes	3.OA.A.3 Use multiplication and division within 100 to solve word problems 3.OA.A.4 Determine the unknown whole number in a multiplication or division equation 3.OA.B.5 Apply properties of operations as strategies to multiply and divide 3.OA.B.6 Understand division as an unknown factor 3.OA.C.7 - Fluently multiply and divide within 100 3.OA.D.8 Solve two step word problems using the four operations	
Unit 4 Ch 17, 18, & 19 2/10 - 3/18	2/10-2/27	8 days	Ch.17: Angles and Lines Ch.18: Two-Dimensional Shapes	Yes	3.G.A.1 -Understand shapes in different categories may share attributes	By 3/27: Common Interim Assessment
	2/28 - 3/18	12 days	Ch 19: Area and Perimeter	Yes	3.MD.C.5 Recognize area as an attribute of place figures and understand concepts of area management. 3.MD.C.5.a - Understand “a unit square” 3.MD.C.5.b .- Understand area of n square units 3.MD.C.6 Measure areas by counting unit squares 3.MD.C.7 Relate area to the operations of multiplication and addition 3.MD.C.7.a - Find the area of a rectangle with whole-number side lengths by tilting it 3.MD.C.7.b - Multiply side lengths to find area of rectangles with whole-number side lengths 3.MD.C.7.c - Use area models to represent the distributive property 3.MD.C.7.d - Recognize area as additive. 3.MD.D.8 Solve real world and mathematical problems involving perimeters of polygons	

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<p>Unit 5</p> <p>Ch 14</p> <p>3/19 - 4/30</p>	<p>3/19 - 4/30</p>	<p>22 days</p>	<p>Ch 14: Fractions</p>	<p>Yes</p>	<p>3.NF.A.1 Understand unit fractions ($1/b$) and that any non-unit fraction is composed of multiple unit fractions (a/b).</p> <p>3.NF.A.2 Understand a fraction as a number on the number line</p> <p>3.NF.A.2.a - Represent a fraction $1/b$ on a number line by defining the intervals.</p> <p>3.NF.A.2.b - Represent a fraction a/b on a number line by marking off a lengths $1/b$ from 0.</p> <p>3.NF.A.3. Explain equivalence of fractions and compare fractions.</p> <p>3.NF.A.3.a - Understand two fractions as equivalent</p> <p>3.NF.A.3.b - Recognize and generate equivalent fractions.</p> <p>3.NF.A.3.c - Express whole numbers as fractions</p> <p>3.NF.A.3.d - Compare two fractions with the same numerator or the same denominator.</p> <p>3.G.A.2 Partition shapes into parts with equal areas. Express each part as a unit fraction of the whole</p>	
<p>Unit 6</p> <p>Ch 11, 12, 13, 15, & 16</p> <p>5/1 – 6/16</p>	<p>5/1 - 5/26</p>	<p>13 days</p>	<p>Ch 11: Metric Length, Mass & Volume</p> <p>Ch 12: Real World Problems: Measurement</p> <p>Ch 15: Customary, Weight, Length and Capacity</p>	<p>No</p>	<p>3.MD.A.2 Measure and estimate liquid volumes and masses and solve one step word problems</p> <p>3.MD.B.4 Generate measurement data by measuring lengths (halves and fourths of an inch)</p>	<p><u>5/18 - 6/5:</u> FAST Screener-aMath (OPTIONAL)</p>
<p>5/27 - 6/2</p>	<p>4 days</p>	<p>Ch 13: Bar Graphs and Line Plots (13.3, 13.4, and chapter wrap-up)</p>	<p>No</p>	<p>3.MD.B.3 Draw picture and bar graphs to represent a data set</p>		
<p>6/3 - 6/16</p>	<p>7 days</p>	<p>Ch 16: Time and Temperature</p>	<p>No</p>	<p>3.MD.A.1 Tell and write time to the nearest minute and solve word problems involving addition and subtraction of time</p>		