Math Expressions Second Grade Pacing Calendar and Standards Alignment

-Non-Math Teaching days

First Introduction of Standard

Instructional Days	1	2	3	4	5			6	7	8	9	10			11	12	13	14	15			16	17	18	19	20			21	22	23
Sept.								Unit 1							Unit 1							Unit 1									
Oct.	Unit 1							Unit 1							Unit 1							Unit 1 Test		Unit 2					Unit 2		
Nov.	Unit 2							Unit 2							Unit 2							Unit 2									
Dec.	Unit 2 Test		Unit 3					Unit 3							Unit 3							Unit 3									
Jan.			Unit 3					Unit 3 Test		Unit 4					Unit 4							Unit 4							Unit 4		
Feb.	Unit 4							Unit 4							Unit 4							Unit 4									
March	Unit 4 Test							Unit 5							Unit 5							Unit 5									
April	Unit 5							Unit 5 Test		Unit 6					Unit 6							Unit 6									
May	Unit 6							Unit 6							Unit 6 Test		Unit 7					Unit 7								Unit 7	
June	Unit 7 Test																													

Unit 1 (29 days)	Unit 2 (23 days)	Unit 3 (16 days)	Unit 4 (31 days)	Unit 5 (17 days)	Unit 6 (22 days)	Unit 7 (12 days)
Addition and subtraction Within 20 Children review making a ten to extend their fluency with addition and subtraction to totals through 20. Children solve all the types of word problems they are expected to master in Grade 2.	**Addition Within 200** Children use place value concepts to add numbers within 200 and they begin working toward fluency of addition within 100.They work with money: pennies, nickels, and dimes.	**Length and Shapes** Children begin using rulers to determine lengths**.** They learn about two- and three-dimensional shapes. They use their measurement skills to collect and organize data as they display measurements on line plots. They analyse measurements given in different units to learn the relationship between the size of a measuring unit and the number of units.	**Subtract 2-Digit Numbers** Children extend their work with money to include quarters and dollars. They use place value concepts to subtract numbers within 200 and begin working toward fluency of subtraction within 100. They solve all problem types from Unit 1, now using number within 200.	**Time, Graphs, and Word Problems** Children learn to tell and write time to five minutes, using A.M. and P.M. They also learn how to make and read picture graphs and bar graphs. They then use the information in graphs to solve *Put Together/Take Apart* and *Compare* word problems.	**3-Digit Addition and Subtraction** Children extend their understanding of place value and of addition and subtraction to numbers within 1,000. They now solve addition and subtraction word problems with totals up to 1,000.	**Arrays, Equal Shares, and Adding or Subtracting Lengths** Children are introduced to arrays. They then use their measurement skills to partition rectangles into rows and columns to determine equal shares. They extend their understanding of equal shares using paper folding and drawings. They then solve word problems about addition and subtraction of lengths and show these operations on a number line diagram.

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First Introduction of Standard

Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7
Addition and subtraction Within 20 **Cluster: Add and subtract within 20.** Big Idea #1- Strategies for Addition and Subtraction 2.OA.A.1 2.OA.B.2 2.OA.C.3 2.NBT.A.2 2.NBT.B.5 2.NBT.B.6 2.NBT.B.9 **Cluster: Represent and solve problems involving addition and subtraction** Big Idea #2- Addition and Subtraction Situations 2.OA.A.1 2.OA.B.2 **Cluster: Work with equal groups of objects to gain foundations for multiplication.** Big Idea #3- More Complex Situations 2.OA.A.1 2.OA.B.2 2.OA.C.3	**Addition Within 200** **Cluster: Understand place value.** Big Idea #1- Use Place Value 2.OA.A.1 2.OA.B.2 2.NBT.A.1b 2.NBT.A.2 2.NBT.A.3 2.NBT.A.4 2.NBT.B.5 2.NBT.B.7 2.NBT.B.8 2.NBT.B.9 **Cluster: Use place value understanding and properties of operations to add and subtract.** Big Idea #2- Add 2-Digit Numbers 2.OA.A.1 2.OA.B.2 2.NBT.A.1b 2.NBT.B.6 2.NBT.B.7 2.NBT.B.9 **Cluster: Work with Time and Money** Big Idea #3- Money and Fluency for Addition Within 100. 2.OA.A.1 2.NBT.A.1a 2.NBT.A.2 2.NBT.A.4 2.NBT.B.5 2.NBT.B.6 2.NBT.B.7 2.MD.C.8	**Length and Shapes** **Cluster: Measure and estimate lengths in standard units.** Big Idea #1- Lengths and Shapes 2.OA.B.2 2.MD.A.1 2.MD.A.3 2.MD.A.4 2.G.A.1 **Cluster: Measure and estimate lengths in standard units.** Big Idea #2- Estimate, Measure, and Make Line Plots 2.NBT.A.4 2.NBT.B.5 2.MD.A.1 2.MD.A.2 2.MD.A.3 2.MD.A.4 2.MD.D.9 2.G.A.1	**Subtract 2-Digit Numbers** **Cluster: Work with time and money.** Big Idea #1- Totals of Mixed Coins and Bills 2.NBT.B.7 2.MD.C.8 **Cluster: Use place value understanding and properties of operations to add and subtract.** Big Idea #2- Multi-digit Subtraction Strategies 2.OA.A.1 2.OA.B.2 2.NBT.A.1a and b 2.NBT.B.5 2.NBT.B.7 2.NBT.B.9 2.MD.C.8 **Cluster: Use place value understanding and properties of operations to add and subtract** Big Idea #3- Word Problems: Addition and Subtraction Within 100 2.OA.1 2.OA.B.2 2.NBT.A.1a 2.NBT.A.2 2.NBT.B.5 2.NBT.B.6 2.NBT.B.7 2. NBT.B.9 2.MD.A.1 2.MD.A.3 2.MD.A.4 2.MD.B.5 2.MD.C.8	**Time, Graphs, and Word Problems** **Cluster: Work with time and money** Big Idea #1- Time 2.NBT.A.2 2.MD.C.7 2.G.A.3 **Cluster: Represent and interpret data.** Big Idea #2- Picture Graphs 2.OA.A.1 2.OA.B.2 2.MD.D.10 **Cluster: Represent and interpret data.** Big Idea #3- Bar Graphs 2.OA.A.1 2.OA.B.2 2.OA.C.4 2.NBT.A.4 2.NBT.B.5 2.MD.D.10	**3-Digit Addition and Subtraction** **Cluster: Understand place value.** Big Idea #1- Understanding Numbers to 1,000 2.NBT.A.1a and b 2.NBT.A.2 2.NBT.A.3 2.NBT.A.4 2.NBT.B.5 2.NBT.B.7 2.NBT.B.8 2.NBT.B.9 2.MD.C.8 **Cluster: Use place value understanding and properties of operations to add and subtract.** Big Idea #2- Adding to 1,000 2.OA.A.1 2.NBT.B.5 2.NBT.B.7 2.NBT.B.9 **Cluster: Use place value understanding and properties of operations to subtract.** Big Idea #3- 3-Digit Subtraction 2.OA.A.1 2.NBT.B.5 2.NBT.B.7 2.NBT.B.9 **Cluster: Use place value understanding and properties of operations to add and subtract** Big Idea#4- 3-Digit Addition and Subtraction 2.OA.A.1 2.NBT.B.4 2.NBT.B.5 2.NBT.B.7 2.NBT.B.9	**Arrays, Equal Shares, and Adding or Subtracting Lengths** **Cluster: Reason with shapes and their attributes.** Big Idea #1- Arrays and Equal Shares 2.OA.A.3 2.NBT.B.4 2.MD.A.1 2.G.A.1 2.G.A.2 2.G.A.3 **Cluster: Relate addition and subtraction to length.** Big Idea #2- Relate Addition and Subtraction to Length 2.OA.A.1 2.OA.C.4 2.NBT.B.5 2.NBT.B.6 2.MD.B.5 2.MD.B.6