

2021-2022 2nd Grade CIP & BIM Alignment and Pacing Document

** means there are things to consider when aligning the BIM math lesson to the SOL

Pacing	SOL(s)	BIM Lesson(s)	Vertical Alignment
Q1 Weeks 1-3	2.1a TSW read, write, and identify the place and value of each digit in a three-digit numeral, with and without models. 2.1b TSW identify the number that is 10 more, 10 less, 100 more, and 100 less than a given number up to 999. 2.1c TSW compare and order whole numbers between 0 and 999. 2.2a TSW count forward by twos, fives, and tens to 120, starting at various multiples of 2, 5, and 10. 2.2b TSW count backward by tens from 120. 2.2c TSW determine whether a number is even or odd.	*Lesson 7.1: Hundreds *Lesson 7.2: Model Numbers to 1,000 *Lesson 7.3: Understand Place Value *Lesson 7.4: Write Three-Digit Numbers *Lesson 7.5: Represent Numbers in Different Ways *Lesson 8.4: Find More or Less *Lesson 8.5: Compare Numbers Using Symbols *Lesson 8.6: Compare Numbers Using a Number Line *Lesson 8.1: Count to 120 in Different Ways *Lesson 1.1: Even and Odd Numbers *Lesson 1.2: Model Even and Odd Numbers	*1st grade grouped collections into tens and ones. *1st grade compared two numbers between 0 and 110 represented with pictures or manipulatives, using the words “greater than”, “less than”, and “equal to”. *1st grade ordered sets (up to 110) from least to greatest and greatest to least. *1st grade counted backwards orally from 30 to 1. *1st grade counted orally to 110 by ones, twos, fives, and tens.
Q1 Week 4-6	2.5a TSW recognize and use the relationship between addition and subtraction to solve single-step practical problems, with whole numbers to 20. *Focus on Fact Families 2.17 TSW demonstrate an understanding of equality through the use of the equal symbol and the use of the not equal symbol. 2.5b TSW demonstrate fluency with addition within 20.	*Lesson 2.1: Add in Any Order *Lesson 2.6: Relate Addition and Subtraction	*1st grade worked with the equal symbol.
Q1 Weeks 7-8	2.5a TSW recognize and use the relationships between addition and subtraction to solve single-step practical problems, with whole numbers to 20. 2.5b TSW demonstrate fluency with subtraction within 20.	*Lesson 2.2: Use Doubles *Lesson 2.4: Make a 10 to Add *Lesson 2.5: Count On and Count Back to Subtract *Lesson 2.7: Get to 10 to Subtract *Lesson 2.8: Practice Addition and Subtraction *Lesson 2.9: Problem Solving: Addition and Subtraction	*1st grade recognized, described, and demonstrated with fluency part-whole relationships within 10. *1st grade created and solved single-step story/picture problems using addition and subtraction within 20.

Week 9	Q1 Benchmark (Math Quarterly Assessment)		
Q2 Weeks 10-11	2.1d TSW round two-digit numbers to the nearest 10.	n/a	*All new content for 2nd grade.
Q2 Weeks 12-13	2.12a TSW draw a line of symmetry in a figure. 2.12b TSW identify and create figures with a least one line of symmetry. 2.13 TSW identify, describe, compare, and contrast plane and solid figures (circles/spheres, squares/cubes, and rectangles/rectangular prisms).	n/a	*All new content for 2nd grade. *1st grade worked with basic shapes (circles, triangles, squares, and rectangles), and used the vocabulary terms “sides”, “vertex/vertices”, and “angles”.
Q2 Week 14	2.3a TSW count and identify the ordinal positions first through twentieth, using an ordered set of objects. 2.3b TSW write the ordinal numbers 1st through 20th.	n/a	*1st grade identified ordinal positions first through tenth.
Q2 Week 15-18	2.6a TSW estimate sums and differences. 2.6b TSW determine differences, using various methods. 2.6c TSW create and solve single-step and two-step practical problems involving addition and subtraction.	*Lesson 3.1: Add Tens Using a Number Line *Lesson 3.2: Add Tens and Ones Using a Number Line *Lesson 3.3: Use Place Value to Add *Lesson 3.4: Decompose to Add Tens and Ones *Lesson 3.5: Use Compensation to Add *Lesson 3.6: Practice Addition Strategies *Lesson 4.1: Use Partial Sums to Add *Lesson 4.2: More Partial Sums *Lesson 4.3: Regroup to Add *Lesson 4.4: Add Two-Digit Numbers *Lesson 4.5: Practice Adding Two-Digit Numbers *Lesson 5.1: Subtract Tens Using a Number Line *Lesson 5.2: Subtract Tens and Ones Using a Number Line *Lesson 5.3: Use Addition to Subtract *Lesson 5.4: Decompose to Subtract *Lesson 5.5: Decompose to Subtract Tens and Ones *Lesson 5.6: Use Compensation to Subtract *Lesson 5.7: Practice Subtraction Strategies	*All new content for 2nd grade.

		<p>*Lesson 6.1: Model and Regroup to Subtract *Lesson 6.2: Use Models to Subtract a One-Digit Number from a Two-Digit Number *Lesson 6.3: Use Models to Subtract Two-Digit Numbers *Lesson 6.4: Subtract from a Two-Digit Number *Lesson 6.5: Use Addition to Check Subtraction *Lesson 6.6: Practice Two-Digit Subtraction *Lesson 3.7: Problem Solving: Addition *Lesson 4.7: More Problem Solving: Addition *Lesson 5.8: Problem Solving: Subtraction *Lesson 6.7: More Problem Solving: Subtraction</p> <p>** Big Ideas has so many lessons for this standard. Your building math specialist would be happy to help you choose which lessons to use.</p>	
Weeks 19	Q2 Benchmark (Math Quarterly Assessment)		
Q3 Weeks 20-21	<p>2.6a TSW estimate sums and differences. 2.6b TSW determine differences, using various methods. 2.6c TSW create and solve single-step and two-step practical problems involving addition and subtraction.</p>	**This was taught in Q2, but this is a great time to review and master regrouping with addition and subtraction	
Q3 Week 22-24	<p>2.7a TSW count and compare a collection of pennies, nickels, dimes, and quarters whose total value is \$2.00 or less. 2.7b TSW use the cent symbol, dollar symbol, and decimal point to write a value of money.</p>	<p>*Lesson 14.1: Find Total Values of Coins *Lesson 14.2: Order to Find Total Values of Coins *Lesson 14.3: Show Money Amounts in Different Ways *Lesson 14.4: Make One Dollar</p> <p>** Ch. 14 only counts a collection of coins under \$1.00. 2nd grade students are required to count and compare collections of coins up to \$2.00. ** Ch. 14 only uses the cent symbol. 2nd grade students are also required to use the dollar symbol and a decimal point to write a value of money.</p>	<p>*1st grade determined values of like coins (100 cents or less), using pennies, nickels, or dimes only.</p> <p><i>*Introduce/Start money. This will not be assessed until the Q3 Benchmark Math Quarterly Assessment.</i></p>
Q3	2.4a TSW name and write fractions	*Lesson 15.6: Identify Two, Three, or Four Equal	*1st grade represented and named

Weeks 25-26	represented by a set, region, or length model for halves, fourths, eighths, thirds, and sixths. 2.4b TSW represent fractional parts with models and symbols. 2.4c TSW compare the unit fractions for halves, fourths, eighths, thirds, and sixths with models.	Shares ** The text only works with halves, thirds and fourths. Students are also required to understand sixths and eighths.	halves and fourths, using models.
Q3 Weeks 27-28	2.15a TSW collect, organize, and represent data in bar graphs and pictographs. 2.15b TSW read and interpret data represented in bar graphs and pictographs. 2.6c TSW create and solve single-step and two-step practical problems involving addition and subtraction. 2.14 TSW use data from probability experiments to predict outcomes when the experiment is repeated.	*Lesson 13.1: Sort and Organize Data *Lesson 13.2: Read Picture Graphs *Lesson 13.3: Make and Interpret Picture Graphs *Lesson 13.4: Read and Interpret Bar Graphs *Lesson 13.5: Make Bar Graphs ** Make sure to incorporate single-step and two-step practical problems when interpreting data in graphs ** The text doesn't have resources for 2.14 - probability.	*1st grade read and interpreted data displayed in tables, picture graphs, and object graphs.
Q3 Week 29	Q3 Benchmark (Math Quarterly Assessment)		
Q4 Weeks 30-31	2.8a TSW estimate and measure length to the nearest inch. 2.8b TSW estimate and measure weight to the nearest pound.	*Lesson 11.4: Measure Lengths in Inches ** The text doesn't include resources for measuring weight to the nearest pound.	*1st grade used nonstandard units to measure and compare length and weight.
Q4 Week 32	2.11 TSW read temperature to the nearest 10 degrees.	n/a	*All new content for 2nd grade.
Q4 Week 33-34	2.9 TSW tell time and write time to the nearest five minutes, using analog and digital clocks.	*Lesson 14.8: Tell Time to the Nearest Five Minutes	*1st grade told time to the hour and half-hour, using analog and digital clocks.
Q4 Week 35	2.10a TSW determine past and future days of the week. 2.10b TSW identify specific days and dates on a given calendar.	n/a	*1st grade read calendars to locate a given day/date.

Q4 Week 36	2.16 identify, describe, create, extend, and transfer patterns found in objects, pictures, and numbers.	*Lesson 8.3: Place Value Patterns ** The text only works with patterns in place value. Make sure to incorporate patterns with objects, pictures, and numbers.	*1st grade identified, described, extended, created, and transferred growing and repeating patterns.
Week 37	Q4 Cumulative Benchmark (Math End-of-Year Assessment)		
Week 38			
Week 39			