

2022-2023 5th 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 1-2	5.1 TSW round to the nearest whole number, tenth, or hundredth when given a decimal through thousandths.	*Lesson 1.7: Round Decimals	*4th grade only rounded decimals to the nearest whole number (SOL 4.3b)
Q1 Weeks 3-6	5.4 TSW create and solve single-step and multistep practical problems involving addition, subtraction, multiplication, and division of whole numbers. 5.5a TSW estimate and determine the product and quotient of two numbers involving decimals. 5.5b TSW create and solve single-step and multistep practical problems involving addition, subtraction, and multiplication of decimals, and create and solve single-step problems involving division of decimals.	*Lesson 3.1 Estimate Sums and Differences *Lesson 3.3 Add Decimals *Lesson 3.4 Subtract Decimals *Lesson 3.7 Problem Solving: Money *Lesson 4.3: Multiply by One-Digit Numbers *Lesson 4.4 Multiply by Two-Digit Numbers *Lesson 4.5 Multiply by Multi-Digit Whole Numbers *Lesson 5.4 Multiply Decimals and Whole Numbers *Lesson 5.8 Multiply Decimals *Lesson 5.9 Problem Solving: Multiply with Money *Lesson 6.4 Divide by One-Digit Numbers *Lesson 6.5 Use Partial Quotients to Divide by Two-Digit Numbers *Lesson 6.6 Use Partial Quotients with a Remainder *Lesson 6.7 Divide Three-Digit Numbers by Two-Digit Numbers *Lesson 7.4 Divide Decimals by One-Digit Numbers *Lesson 7.8 Insert Zeros in the Dividend *Lesson 7.9 Problem Solving: Decimal Operations **Some problems in the chapter 5 lessons have factors with more than 2 digits. Students are only required to solve decimal multiplication problems in which the factors do not exceed two digits by two digits ** Some problems in lesson 7.8 require annexing more than one zero. Students are only required to solve problems in which no more than one additional zero will need to be annexed.	*Division with 2-digit divisors should be the only new skill that is introduced in 5th grade.
Q1	5.3a TSW identify and describe the	Lesson 6.4 in the 4th grade Big Ideas book.	*2nd grade introduced even and odd

Week 7	characteristics of prime and composite numbers. 5.3b TSW identify and describe the characteristics of even and odd numbers.		numbers. *Prime & composite numbers will be new content for 5th grade.
Q1 Weeks 8-9	5.2a TSW represent and identify equivalencies among decimals and fractions, with and without models. 5.2b TSW compare and order fractions, mixed numbers, and/or decimals in a given set, from least to greatest and greatest to least.	*Lesson 1.6: Compare Decimals **Lesson 1.6 only compares and orders decimals. Students are required to compare and order fractions, mixed numbers and decimals.	*4th grade introduced fraction and decimal equivalencies with models. *4th grade compared and ordered fractions. *4th grade compared and ordered decimals. *4th grade did NOT compare and order a combination of fractions and decimals.
Week 10	Q1 Benchmark (Math Quarterly Assessment)		
Q2 Weeks 11-13	5.6a TSW solve single-step and multistep practical problems involving addition and subtraction with fractions and mixed numbers. 5.6b TSW solve single-step practical problems involving multiplication of a whole number, limited to 12 or less, and a proper fraction, with models.	*Chapter 8: Add and Subtract Fractions (all lessons) *Lesson 9.1: Multiply Whole Numbers by Fractions *Lesson 9.2 Use Models to Multiply Fractions by Whole Numbers *Lesson 9.3 Multiply Fractions and Whole Numbers ** Some problems in chapter 9 do not align to the EKS bullet that states when multiplying a fraction and a whole number, the denominator will be a factor of the whole number.	*4th grade added and subtracted fractions and mixed numbers, but no regrouping/borrowing was necessary.
Q2 Week 14	5.7 TSW simplify whole number numerical expressions using the order of operations.	*Lesson 2.2: Order of Operations **Some problems involve fractions and decimals but students are only required to simplify whole number numerical expressions using the order of operations.	*All new content for 5th grade.
Q2 Weeks 15-17	5.19a TSW investigate and describe the concept of a variable. 5.19b TSW write an equation to represent a given mathematical relationship, using a variable.	n/a	*All new content for 5th grade.

	<p>5.19c TSW use an expression with a variable to represent a given verbal expression involving one operation.</p> <p>5.19d TSW create a problem situation based on a given equation, using a single variable and one operation.</p>		
Q2 Week 18	5.18 TSW identify, describe, create, express, and extend number patterns found in objects, pictures, numbers, and tables.	<p>*Lesson 12.6: Number Patterns</p> <p>** Lesson 12.6 only has patterns with whole numbers. Students are also required to identify patterns with fractions and decimals as well.</p>	*Input/Output tables may be labeled with variables.
Week 19	Q2 Benchmark (Math Quarterly Assessment)		
Q3 Weeks 20-23	<p>5.8a TSW solve practical problems that involve perimeter, area, and volume in standard units of measure.</p> <p>5.8b TSW differentiate among perimeter, area, and volume, and identify whether the application of the concept of perimeter, area, or volume is appropriate for a given situation.</p> <p>5.9a TSW given the equivalent measure of one unit, identify equivalent measurements within the metric system.</p> <p>5.9b TSW solve practical problems involving length, mass, and liquid volume using metric units.</p>	<p>*Lesson 13.1: Understand the Concept of Volume</p> <p>*Lesson 13.2: Find Volumes of Right Rectangular Prisms</p> <p>*Lesson 13.3: Apply the Volume Formula</p> <p>*Lesson 11.1: Length in Metric Units</p> <p>*Lesson 11.2: Mass & Capacity in Metric Units</p>	<p>*Area of triangles and volume of rectangular prisms and cubes will be new content for 5th grade.</p> <p>*Converting metric measurements across decimals and whole numbers will be new content for 5th grade.</p>
Q3 Week 24	5.10 TSW identify and describe the diameter, radius, chord, and circumference of a circle.	n/a	*All new content for 5th grade.
Q3 Weeks 25-26	<p>5.12 TSW classify and measure right, acute, obtuse, and straight angles.</p> <p>5.13a TSW classify triangles as right, acute, or obtuse, and equilateral, scalene, or isosceles.</p> <p>5.13b TSW investigate the sum of the interior angles in a triangle and determine unknown angle measure.</p>	<p>*Lesson 14.1 Classify Triangles</p> <p>** Lesson 14.1 includes equiangular triangles, which is not a required classification.</p>	*Use of protractors will be new content for 5th grade.

Q3 Week 27	5.14a TSW recognize and apply transformations, such as translation, reflection, and rotation. 5.14b TSW investigate and describe the results of combining and subdividing polygons.	*n/a	*3rd grade introduced combining and subdividing polygons.
Q4 Week 28	5.11 TSW solve practical problems related to elapsed time in hours and minutes within a 24-hour period.	n/a	*4th grade measures elapsed time within a 12-hour period.
Week 29	Q3 Benchmark (Math Quarterly Assessment)		
Q4 Weeks 30-31	5.15 TSW determine the probability of an outcome by constructing a sample space or using the Fundamental (Basic) Counting Principle.	n/a	*Use of the “Fundamental (Basic) Counting Principle” will be new content for 5th grade.
Q4 Weeks 32-33	5.17a TSW, given a practical context, describe mean, median, and mode as measures of center. 5.17b TSW, given a practical context, describe mean as fair share. 5.17c TSW, given a practical context, describe the range of a set of data as a measure of spread. 5.17d TSW, given a practical context, determine the mean, median, mode, and range of a set of data.	n/a	*All new content for 5th grade.
Q4 Week 34	5.16a TSW, given a practical problem, represent data in line plots and stem-and-leaf plots. 5.16b TSW, given a practical problem, interpret data represented in line plots and stem-and-leaf plots. 5.16c TSW, given a practical problem, compare data represented in a line plot with the same data represented in a stem-and-leaf	*Lesson 11.6: Make and Interpret Line Plots	*All new content for 5th grade.

	plot.		
Week 36			
Week 37			
Week 38			
Week 39			
Week 40			