



WEST BOLIVAR
CONSOLIDATED SCHOOL DISTRICT

Mathematics Pacing Guide

THIRD GRADE

Term 1



Third Grade

FIRST NINE WEEKS

Unit 1: Addition and Subtraction (Within 1000)		<i>Suggested</i> Number of Days for Unit: 13 days
Standards	<i>Suggested</i> Number of Instructional Days	
3.NBT.1 Use place value understanding to round whole numbers to the nearest 10 or 100.	1 Day	
3.NBT.2 <i>Fluently</i> add and subtract (including subtracting across zeros) within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction. Include problems with whole dollar amounts.	6 Days	
3.OA.9 Identify arithmetic patterns (including patterns in the addition table or multiplication table), and explain using properties of operations. For example, observe that 4 times a number is always even, and explain why 4 times a number can be decomposed into two equal addends.	2 Days	
3.OA.8 Solve two-step (two operational steps) word problems using the four operations. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding. Include problems with whole dollar amounts. (Solve one-step word problems using addition and subtraction.)	2 Days *Whole numbers only.	
Unit Review	1 Day	
Unit Assessment	1 Day	



Unit 2: Time (Problem Solving)	<i>Suggested Number of Days for Unit: 7 days</i>
Standards	<i>Suggested Number of Instructional Days</i>
3.MD.1 Tell and write time to the nearest minute and measure time intervals in minutes. Solve word problems involving addition and subtraction of time intervals in minutes, e.g., by representing the problem on a number line diagram.	5 Days
Unit Review	1 Day
Unit Assessment	1 Day

Unit 3: Displaying Data	<i>Suggested Number of Days for Unit: 5 days</i>
Standards	<i>Suggested Number of Instructional Days</i>
3.MD.3 Draw a scaled picture graph and a scaled bar graph to represent a data set with several categories. Solve one- and two-step "how many more" and "how many less" problems using information presented in scaled bar graphs. <i>For example, draw a bar graph in which each square in the bar graph might represent 5 pets.</i>	5 Days

Unit 4: Introducing Multiplication Facts	<i>Suggested Number of Days for Unit: 15 days</i>
Standards	<i>Suggested Number of Instructional Days</i>
3.OA.1 Interpret products of whole numbers, e.g., interpret 5×7 as the total number of objects in 5 groups of 7 objects each. <i>For example, describe a context in which a total number of objects can be expressed as 5×7.</i>	4 Days
3.OA.4 Determine the unknown whole number in a multiplication or division equation relating three whole numbers, with factors 0-10. <i>For example, determine the unknown number that makes the equation true in each of the following equations $8 \times ? = 48$, $5 = ? \div 3$, $6 \times 6 = ?$.</i>	4 Days



Unit 4: Introducing Multiplication Facts	<i>Suggested</i> Number of Days for Unit: 15 days	
Standards	<i>Suggested</i> Number of Instructional Days	
<p>3.OA.5 Apply properties of operations as strategies to multiply and divide. <i>Examples: If $6 \times 4 = 24$ is known, then $4 \times 6 = 24$ is also known. (Commutative property of multiplication.) $3 \times 5 \times 2$ can be found by $3 \times 5 = 15$, then $15 \times 2 = 30$, or by $5 \times 2 = 10$, then $3 \times 10 = 30$. (Associative property of multiplication.) Knowing that $8 \times 5 = 40$ and $8 \times 2 = 16$, one can find 8×7 as $8 \times (5 + 2) = (8 \times 5) + (8 \times 2) = 40 + 16 = 56$. (Distributive property.)</i></p> <p>3.OA.7 Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division (e.g., knowing that $8 \times 5 = 40$, one knows $40 \div 5 = 8$) or properties of operations. Know from memory all products of two one-digit numbers; and fully understand the concept when a remainder does not exist under division.</p>	5 Days	
Units Review (Units 3 & 4)	1 Day	
Units Assessment (Units 3 & 4)	1 Day	



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Term 2



Third Grade

SECOND NINE WEEKS

Unit 5: Multiplication Fluency Using Patterns

Suggested Number of Days for Unit: 5 days

Standards	<i>Suggested</i> Number of Instructional Days
3.OA.D.9 Identify arithmetic patterns (including patterns in the addition table or multiplication table), and explain them using properties of operations. For example, observe that 4 times a number is always even, and explain why 4 times a number can be decomposed into two equal addends.	1 Day
3.NBT.A.3 Multiply one-digit whole numbers by multiples of 10 in the range 10–90 (e.g., 9×80 , 5×60) using strategies based on place value and properties of operations.	2 Days
Unit Review	1 Day
Unit Assessment	1 Day



Unit 6: Understanding Divisions	Suggested Number of Days for Unit: 15 days	
Standards	Suggested Number of Instructional Days	
<p>3.OA.A.2 Interpret whole-number quotients of whole numbers, e.g., interpret $56 \div 8$ as the number of objects in each share when 56 objects are partitioned equally into 8 shares, or as a number of shares when 56 objects are partitioned into equal shares of 8 objects each. <i>For example, describe a context in which a number of shares or a number of groups can be expressed as $56 \div 8$.</i></p>	1 Day	
<p>3.OA.A.4 Determine the unknown whole number in a multiplication or division equation relating three whole numbers, with factors 0 - 10. <i>For example, determine the unknown number that makes the equation true in each of the equations $8 \times ? = 48$, $5 = ? \div 3$, $6 \times 6 = ?$.</i></p>	6 Days	
<p>3.OA.B.5 Apply properties of operations as strategies to multiply and divide. Examples: If $6 \times 4 = 24$ is known, then $4 \times 6 = 24$ is also known. (Commutative property of multiplication.) $3 \times 5 \times 2$ can be found by $3 \times 5 = 15$, then $15 \times 2 = 30$, or by $5 \times 2 = 10$, then $3 \times 10 = 30$. (Associative property of multiplication.) Knowing that $8 \times 5 = 40$ and $8 \times 2 = 16$, one can find 8×7 as $8 \times (5+2) = (8 \times 5) + (8 \times 2) = 40 + 16 = 56$. (Distributive property.)</p>	2 Days	
<p>3.OA.B.6 Understand division as an unknown-factor problem, where a remainder does not exist. For example, find $32 \div 8$ by finding the number that makes 32 when multiplied by 8 with no remainder.</p>	2 Days	



Unit 6: Understanding Divisions		<i>Suggested Number of Days for Unit: 15 days</i>
Standards		<i>Suggested Number of Instructional Days</i>
3.OA.C.7 Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division (e.g., knowing that $8 \times 5 = 40$, one knows $40 \div 5 = 8$) or properties of operations. Know from memory all products of two one-digit numbers; and fully understand the concept when a remainder does not exist under division.		3 Days
Unit Review		1 Day
Unit Assessment		1 Day

Unit 7: Problem Solving		<i>Suggested Number of Days for Unit: 10 days</i>
Standards		<i>Suggested Number of Instructional Days</i>
3.OA.A.3 Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem		4 Days
3.OA.D.8 Solve two-step (two operational steps) word problems using the four operations. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding. Include problems with whole dollar amounts		4 Days
Unit Review		1 Day
Unit Assessment		1 Day



Unit 8: Introduction to Fractions		<i>Suggested</i> Number of Days for Unit: 10 days
Standards		<i>Suggested</i> Number of Instructional Days
3.NF.A.1 Understand a fraction $\frac{1}{b}$ as the quantity formed by 1 part when a whole is partitioned into b equal parts; understand a fraction $\frac{a}{b}$ as the quantity formed by a parts of size $\frac{1}{b}$		4 Days
3.NF.A.2 Understand a fraction as a number on the number line; represent fractions on a number line diagram. a. Represent a fraction $\frac{1}{b}$ on a number line diagram by defining the interval from 0 to 1 as the whole and partitioning it into b equal parts. Recognize that each part has size $\frac{1}{b}$ and that the endpoint of the part based at 0 locates the number $\frac{1}{b}$ on the number line. b. Represent a fraction $\frac{a}{b}$ on a number line diagram by marking off a lengths $\frac{1}{b}$ from 0. Recognize that the resulting interval has size $\frac{a}{b}$ and that its endpoint locates the number $\frac{a}{b}$ on the number line.		4 Days
Unit Review		1 Day
Unit Assessment		1 Day



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Term 3



Third Grade

THIRD NINE WEEKS

Unit 9: Equivalent Fractions

Suggested Number of Days for Unit: 10 days

Standards

Suggested Number of Instructional Days

- 3.NF.A.3
Explain equivalence of fractions in special cases, and compare fractions by reasoning about their size.
- Understand two fractions as equivalent (equal) if they are the same size, or the same point on a number line. Recognize that comparisons are valid only when the two fractions refer to the same whole.
 - Recognize and generate simple equivalent fractions, e.g., $\frac{1}{2} = \frac{2}{4}$, $\frac{4}{6} = \frac{2}{3}$. Explain why the fractions are equivalent, e.g., by using a visual fraction model.
 - Express whole numbers as fractions, and recognize fractions that are equivalent to whole numbers. *Examples: Express 3 in the form $3 = \frac{3}{1}$; recognize that $\frac{6}{1} = 6$; locate $\frac{4}{4}$ and 1 at the same point of a number line diagram.*
 - Compare two fractions with the same numerator or the same denominator by reasoning about their size. Recognize that comparisons are valid only when the two fractions refer to the same whole. Record the results of comparisons with the symbols $>$, $=$, or $<$, and justify the conclusions, e.g., by using a visual fraction model.

8 Days

Unit Review

1 Day

Unit Assessment

1 Day



Unit 10: Fractions and Data	<i>Suggested Number of Days for Unit: 5 days</i>
Standards	<i>Suggested Number of Instructional Days</i>
3.MD.B.A.2 Measure and estimate liquid volumes and masses of objects using standard units of grams (g), kilograms (kg), and liters (l). Add, subtract, multiply, or divide to solve one-step word problems involving masses or volumes that are given in the same units, e.g., by using drawings (such as a beaker with a measurement scale) to represent the problem.	3 Days
Unit Review	1 Day
Unit Assessment	1 Day

Unit 11: Volume and Mass	<i>Suggested Number of Days for Unit: 10 days</i>
Standards	<i>Suggested Number of Instructional Days</i>
3.MD.A.2 Measure and estimate liquid volumes and masses of objects using standard units of grams (g), kilograms (kg), and liters (l). Add, subtract, multiply, or divide to solve one-step word problems involving masses or volumes that are given in the same units, e.g., by using drawings (such as a beaker with a measurement scale) to represent the problem.	8 Days
Unit Review	1 Day
Unit Assessment	1 Day



Unit 12: Understand and Calculate Area		<i>Suggested</i> Number of Days for Unit: 15 days
Standards		<i>Suggested</i> Number of Instructional Days
3.MD.C.5 Recognize area as an attribute of plane figures and understand concepts of area measurement. a. A square with side length 1 unit, called “a unit square,” is said to have “one square unit” of area, and can be used to measure area. b. A plane figure which can be covered without gaps or overlaps by n unit squares is said to have an area of square units	5 Days	
3.MD.C.6 Measure areas by counting unit squares (square cm, square m, square in, square ft, and improvised units).	6 Days	
3.MD.C.7 Relate area to the operations of multiplication and addition. a. Find the area of a rectangle with whole-number side lengths by tiling it, and show that the area is the same as would be found by multiplying the side lengths. b. Multiply side lengths to find areas of rectangles with whole- number side lengths (where factors can be between 1 and 10, inclusively) in the context of solving real world and mathematical problems, and represent whole-number products as rectangular areas in mathematical reasoning. c. Use tiling to show in a concrete case that the area of a rectangle with whole-number side lengths a and $b + c$ is the sum of $a \times b$ and $a \times c$. Use area models to represent the distributive property in mathematical reasoning. d. Find areas of rectilinear figures by decomposing them into non-overlapping rectangles and adding the areas of the non- overlapping parts, applying this technique to solve real world problems. Recognize area as additive	2 Days	
Unit Review	1 Day	
Unit Assessment	1 Day	



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Term 4



Third Grade

FOURTH NINE WEEKS

Unit 13: Relate Shapes, Fractions, and Area	<i>Suggested Number of Days for Unit: 5 days</i>
Standards	<i>Suggested Number of Instructional Days</i>
3.NBT.1 Use place value understanding to round whole numbers to the nearest 10 or 100.	3 Days
Unit Review	1 Day
Unit Assessment	1 Day

Unit 14: Connect Area and Perimeter	<i>Suggested Number of Days for Unit: 10 days</i>
Standards	<i>Suggested Number of Instructional Days</i>
3.MD.D.8 Solve real world and mathematical problems involving perimeters of polygons, including: finding the perimeter given the side lengths, finding an unknown side length, and exhibiting (including, but not limited to: modeling, drawing, designing, and creating) rectangles with the same perimeter and different areas or with the same area and different perimeters.	8 Days
Unit Review	1 Day
Unit Assessment	1 Day



Unit 15: Understand Geometric Shapes

Suggested Number of Days for Unit: 10 days

Standards	<i>Suggested Number of Instructional Days</i>
<p>3.G.A.1 Understand that shapes in different categories (e.g., rhombuses, rectangles, circles, and others) may share attributes (e.g., having four sides), and that the shared attributes can define a larger category (e.g., quadrilaterals). Recognize rhombuses, rectangles, and squares as examples of quadrilaterals, and draw examples of quadrilaterals that do not belong to any of these subcategories.</p>	8 Days
Unit Review	1 Day
Unit Assessment	1 Day