Grade Three Tecumseh School District Math Curriculum Map xcvbnm yuiopas klzxcvbnmqwertyulopasdighjklzxcvbnmq

# August/September

Indicator	Learning Targets	Major Content	Introduce	Continue	Assess	Vocabulary
3.NBT.1 Use place value understanding to round whole number to the nearest 10 or 100	3.OA.8 Solve two-step word problems using the four operations. Represent these problems using equations with a letter standing for the unknown quantity. Asses the reasonableness of answers using mental computation and estimation strategies including rounding.	Major	Х		X	
3.NBT.2 Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction.	3.OA.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.		Х		X	

#### October

Indicator	Learning Targets	Major Content	Introduce	Continue	Assess	Vocabulary
3.OA.1 Interpret products of whole number, e.g., interpret 5x7 as the total number of objects in 5 groups of 7 objects each. For example: describe a context in which a total number of objects can be expressed as 5x7.	3.NBT.3 Multiply one-digit whole numbers of 10 in the range 10-90 (e.g., 9x80,5x60) using strategies based on place value and properties of operations.	Major	х			
3.OA.3 Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawing and equations with a symbol for the unknown number to represent the problem.	3.MD.7 Relate area to the operations of multiplication and addition. 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 x b and a x c. Use area models to represent the distributive property in mathematical reasoning.	Major	х			
3.OA.5 Apply properties of operations as strategies to multiply and divide. Examples: If 6x4=24 is known, the 4x6=24 is also known. Icommutative property of multiplication.) 3x5x2 can be found by 3x5=15, then 15x2=30, or by 5x2-=10, then 3x10=30 (Associative property of multiplication.) Knowing that 8x5=40 and 8x2=16, one can find 8x7 as (5+2)=(8x5)+(8x2)=40+16=56. (Distributive property.)		Not on PARRC sheet	х			
3.OA.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 time a number is always even, and explain why 4 times a number can be decomposed into two equal addends.		Not on PARRC sheet		х		

Indicator	Learning Targets	Major Content	Introduce	Continue	Assess	Vocabulary
3.OA.7 Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division (e.g., knowing that 8x5=40, one knows 40 ÷ 5=8) or properties of operations. By the end of Grade 3, know from memory all products of two one-digit numbers.		Major	х			
3.OA.8 Solve two-step 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.		Major		х		
3.MD.7 Relate area to the operations of multiplication and addition. 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 x b and a x c. Use area models to represent the distributive property in mathematical reasoning.						

#### November

Indicator	Learning Targets	Major Content	Introduce	Continue	Assess	Vocabulary
3.OA.2 Interpret whole-number quotients of whole number, e.g., interpret 56 ÷ 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. For example, describe a context in which a number of shares or a number of groups can be expressed as 56 ÷ 8.	3.OA.6 Understand division as an unknown-factor problem. For example, find 32 ÷ 8 by finding the number that make 32 when multiplied by 8.	Major	x			
3.OA.3 Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawing and equations with a symbol for the unknown number to represent the problem.	3.OA.7 Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division (e.g., knowing that 8x5=40, one knows 40 ÷ 5=8) or properties of operations. By the end of Grade 3, know from memory all products of two one-digit numbers.	Major		х		

Indicator	Learning Targets	Major Content	Introduce	Continue	Assess	Vocabulary
3.OA.5 Apply properties of operations as strategies to multiply and divide. Examples: If 6x4=24 is known, the 4x6=24 is also known. Icommutative property of multiplication.) 3x5x2 can be found by 3x5=15, then 15x2=30, or by 5x2=10, then 3x10=30 (Associative property of multiplication.) Knowing that 8x5=40 and 8x2=16, one can find 8x7 as (5+2)=(8x5)+(8x2)=40+16=56. (Distributive property.)	3.OA.8 Solve two-step 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.	Not on PARRC sheet		х		
3.OA.8 Solve two-step 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.	3.OA.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 time a number is always even, and explain why 4 times a number can be decomposed into two equal addends.	Major		х		
3.OA.4 Determine the unknown whole number in multiplication or division equation relating three whole numbers. For example, determine the unknown number that makes the equation true in each of the equations $8 \times ? = 48, 5 = ? \div 3, 6 \times 6 = ?$ .		Major	x			
3.NBT.2 Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction.		Additional		X		
3.NBT.1 Use place value understanding to round whole numbers to the nearest 10 or 100		Not on PARRC sheet		х		

#### December

Indicator	Learning Targets	Major Content	Introduce	Continue	Assess	Vocabulary
3.NF.1 Understand a fraction 1/b as the quantity formed by 1 part when a whole is partitioned into b equal parts; understand a fraction a/b as the quantity formed by a parts of size 1/b		Major	х			
3.NF.2 Understand a fraction as a number line; represent fractions on a number line diagram.  a. Represent a fraction 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 1/b and that the endpoint of the part based at 0 locates the number 1/b on the number line.		Major	х			
3.NF.2 Understand a fraction as a number on the number line; represent fractions on a number line diagram. b. Represent a fraction a/b on a number line diagram by marking off a lengths 1/b from 0. Recognize that the resulting interval has size a/b and that its endpoint locates the number a/b on the number line.		Major	х			
3.G.2 Partition shapes into parts with equal areas. Express the area of each part as a unit fraction of the whole. For example, partition a shape into 4 parts with equal area, and describe the area of each part as ¼ of the area of the shape.		Standard	х			

# January

Indicator	Learning Targets	Major Content	Introduce	Continue	Assess	Vocabulary
3.NF.2 Understand a fraction as a number on the number line; represent fractions on a number line diagram. b. Represent a fraction a/b on a number line diagram by marking off a lengths 1/b from 0. Recognize that the resulting interval has size a/b and that its endpoint locates the number a/b on the number line.	3.OA.7 Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division (e.g., knowing that 8x5=40, one knows 40 ÷ 5=8) or properties of operations. By the end of Grade 3, know from memory all products of two one-digit numbers.	Major		х		
3.NF.3 Explain equivalence of fractions in special cases, and compare fractions by reasoning about their size. a. Understand two fractions as equivalent (equal) if they are the same size, or the same point on a number line.	3.G.1 Understand that shapes in different categories (e.g., rhombuses, rectangles, 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.	Major	х			
3.NF.3 Explain equivalence of fractions in special cases, and compare fractions by reasoning about their size. b. Recognize and generate simple equivalent fractions, (e.g., ½ = 2/4, 4/6 = 2/3). Explain why the fractions are equivalent, e.g., by using a visual fraction model.	3.OA.8 Solve two-step 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.	Major	х			
3.NF.3 Explain equivalence of fractions in special cases, and compare fractions by reasoning about their size. c. Express whole numbers as fractions, and recognize fractions that are equivalent to whole number. Examples: Express 3 in the form 3 = 3/1; recognize that 6/1 = 6; locate 4/4 and 1 at the same point of a number line diagram.	3.MD.7 Relate area to the operations of multiplication and addition. 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 x b and a x c. Use area models to represent the distributive property in mathematical reasoning.	Major	х			

3.NF.3 Explain equivalence of fractions in special cases, and compare fractions by reasoning about their size.  d. 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 they symbols >, =, or <, and justify the conclusions, e.g., by using a visual fraction model.	Major	X			
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## **February**

Indicator	Learning Targets	Major Content	Introduce	Continue	Assess	Vocabulary
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.		х	х			
3.MD.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 rectangles with the same perimeter and different areas or with the same area and different perimeters.		Additional	х			

### March

Indicator	Learning Targets	Major Content	Introduce	Continue	Assess	Vocabulary
3.MD.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.	3.OA.3 Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawing and equations with a symbol for the unknown number to represent the problem.	Major	х			
3.MD.5 Recognize area as an attribute of plane figures and understand concepts of area measurement. b. A plane figure which can be covered without gaps or overlaps by n unit squares is said to have an area of n square units.	3.G.2 Partition shapes into parts with equal areas. Express the area of each part as a unit fraction of the whole. For example, partition a shape into 4 parts with equal area, and describe the area of each part as ¼ of the area of the shape.	Major	Х			
3.MD.6 Measure areas by counting unit squares (square cm, square m, square in, square ft, and improvised units.	3.MD.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.	Major	х			
3.MD.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.		Major		X		

3.MD.7 Relate area to the operations of multiplication and addition. b. Multiply side lengths to find areas of rectangles with whole-number side lengths in the context of solving real world and mathematical problems, and represent whole-number products as rectangular areas in mathematical reasoning.	Major	X	
<ul> <li>3.MD.7 Relate area to the operations of multiplication and addition.</li> <li>c. Use tiling to show in a concrete case that the area of a rectangle with wholenumber side lengths a and b + c is the sum of a x b and a x c. Use area models to represent the distributive property in mathematical reasoning.</li> </ul>	Major	X	
3.MD.7 Relate area to the operations of multiplication and addition. d. Recognize area as additive. 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 work problems.	Major	X	
3.MD.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 rectangles with the same perimeter and different areas or with the same area and different perimeters.	Additional	Х	

#### **APRIL**

Indicator	Learning Targets	Major Content	Introduce	Continue	Assess	Vocabulary
3.MD.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.		Major		х		
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. For example: draw a bar graph in which each square in the bar graph might represent 5 pets.		Support	х			
3.MD.4 Generate measurement data by measuring lengths using rulers marked with halves and fourths of an inch. Show the date by making a line plot, where the horizontal scale is marked off in appropriate units – whole numbers, halves, or quarter.		Support	Х			

# May

Indicator	Learning Targets	Major Content	Introduce	Continue	Assess	Vocabulary