

Grade 3: New Jersey Student Learning Standards for Mathematics - Prerequisite Standards and Learning Objectives by Domain

Description

Included here are the prerequisite concepts and skills necessary for students to learn grade level content based on the New Jersey Student Learning Standards in mathematics. This tool is intended to support educators in the identification of any gaps in conceptual understanding or skill that might exist in a student's understanding of mathematics standards. The organization of this document mirrors that of the New Jersey Student Learning Standards for mathematics, includes all grade- or course-level standards and the associated student learning objectives, and reflects a grouping of the standards by domain.

The tables are divided into three columns. The first column contains the grade level standard and student learning objectives, which reflect the corresponding concepts and skills in that standard. The second column contains standards from prior grades and the corresponding learning objectives, which reflect prerequisite concepts and skills essential for student attainment of the grade level standard as listed on the left. Given that a single standard may reflect multiple concepts and skills, all learning objectives for a prior grade standard may not be listed. Only those prior grade learning objectives that reflect prerequisite concepts and skills important for attainment of the associated grade level standard is listed. The third column contains the recommendations from Student Achievement Partners recommendations (SAP) for the 2020-21 school year regarding preserving or reducing time as compared to a typical academic year.

Content Emphases Key:

: Major Cluster

: Supporting Cluster

: Additional Cluster

Note: Double asterisks (**) indicate that the example(s) included within the New Jersey Student Learning Standard may be especially informative when considering the Student Learning Objective.

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Domain: Operations and Algebraic Thinking

Standard and Student Learning Objectives	Previous Grade(s) Standards and Student Learning Objectives	Instructional Considerations SAP recommendation to preserve or reduce time in 20-21 as compared to a typical year
 3.OA.A.1 Interpret products of whole numbers, e.g., interpret 5 × 7 as the total number of objects in 5 groups of 7 objects each. For example, describe and/or represent a context in which a total number of objects can be expressed as 5 × 7. We are learning to/that interpret products of whole numbers in terms of the number of groups and objects** 	 2.OA.C.4 Use addition to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns; write an equation to express the total as a sum of equal addends. We have learned to/that use repeated addition to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns write an equation to express the total number of objects arranged in a rectangular array as a sum of equal addends 	No special considerations for curricula well aligned to multiplication and division concepts and problem solving, as detailed in this standard or cluster. Students may need extra support to see row and column structure in arrays of objects. Time spent on instruction and practice should not be reduced
3.OA.A.2 Interpret whole-number quotients of whole numbers, e.g., interpret 56	n/a	No special considerations for curricula well aligned to multiplication and division concepts and problem solving, as detailed in this standard or cluster. Students may need extra support to see row and column structure in arrays of objects. Time spent on instruction and practice should not be reduced



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 We are learning to/that interpret whole number quotients of whole numbers as the number of objects in each share (or groups) or as the number of shares (or groups) that result from partitioning a total number of objects** 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. We are learning to/that use multiplication and division within 100 to solve word problems in situations involving: equal groups, arrays and measurement quantities 	 2.OA.C.4 Use addition to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns; write an equation to express the total as a sum of equal addends. We have learned to/that use repeated addition to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns write an equation to express the total number of objects arranged in a 	
 use drawings and equations with a symbol for the unknown number to represent multiplication and division word problems within 100 	rectangular array as a sum of equal addends	



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 ■ 3.OA.A.4 Determine the unknown whole number in a 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 × ? = 48, 5 = ♦ ÷ 3, 6 × 6 = ?. We are learning to/that ■ determine the unknown whole number in a multiplication or division equation relating three whole numbers *** 	n/a	No special considerations for curricula well aligned to multiplication and division concepts and problem solving, as detailed in this standard or cluster. Students may need extra support to see row and column structure in arrays of objects. Time spent on instruction and practice should not be reduced
3.OA.B.5 Apply properties of operations as strategies to multiply and divide. <i>Examples:</i> 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).	n/a	Incorporate additional practice with double digit sums (2.NBT.B.5) to support the grade 3 multiplication work with properties of operations, especially the distributive property.
 We are learning to/that apply properties of operations (commutative property) as strategies to multiply apply the distributive property as a strategy to multiply 		



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 apply properties of operations (associative property) as strategies to multiply 		
3.OA.B.6 Understand division as an unknown-factor problem. For example, find $32 \div 8$ by finding the number that makes 32 when multiplied by 8 .	n/a	Incorporate additional practice with double digit sums (2.NBT.B.5) to support the grade 3 multiplication work with properties of operations, especially the distributive
We are learning to/that		property.
 a related multiplication problem with an unknown factor can be used to solve a division problem 		
3.0A.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. By the end of Grade 3, know from memory all products of two one-digit numbers.	n/a	Incorporate additional practice with double digit sums (2.NBT.B.5) to support the grade 3 multiplication work with properties of operations, especially the distributive property.
We are learning to/that		
 multiply and divide within 100 using strategies such as: relationship between multiplication and division or properties of operations with accuracy and efficiency know from memory all products of two one-digit numbers 		



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 3.OA.D.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. We are learning to/that solve simple two-step word problems using the four operations represent two-step word problems using equations with a letter standing for the unknown quantity assess the reasonableness of answers in two-step word problems using mental computation and estimation strategies including rounding 	 2.OA.A.1 Use addition and subtraction within 100 to solve one- and two-step word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem. We have learned to/that represent a word problem using drawings and equations using a symbol for the unknown solve one and two-step addition and subtraction word problems within 100 involving situations of adding to, taking from, putting together, taking apart, and comparing 	No special considerations for curricula well aligned to two step word problems using the four operations, as detailed in this standard/cluster. Time spent on instruction and practice should not be reduced.
 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. We are learning to/that identify arithmetic patterns, including patterns in the addition table or 	 2.OA.C.3 Determine whether a group of objects (up to 20) has an odd or even number of members, e.g., by pairing objects or counting them by 2s; write an equation to express an even number as a sum of two equal addends. We have learned to/that determine whether a group of objects up to 20 is odd or even (e.g., by pairing objects, counting them by 2s) 	Eliminate lessons or problems on arithmetic patterns Note: While this standard is part of the Major Work of the Grade, during the 2020-21 school year, it is recommended that it receive lighter treatment.



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multiplication table, and explain them using properties of operations	 write an equation to express an even number as a sum of two equal addends 	



Grade 3: New Jersey Student Learning Standards for Mathematics - Prerequisite Standards and Learning Objectives

Domain: Number and Operations in Base Ten

Standard and Student Learning Objectives	Previous Grade(s) Standards and Student Learning Objectives	Instructional Considerations SAP recommendation to preserve or reduce time in 20-21 as compared to a typical year
 S.NBT.A.1 Use place value understanding to round whole numbers to the nearest 10 or 100. We are learning to/that ■ round whole numbers to the nearest 10 or 100, using place value understanding 	■ 2.NBT.A.1 Understand that the three digits of a three-digit number represent amounts of hundreds, tens, and ones; e.g., 706 equals 7 hundreds, 0 tens, and 6 ones. a. 100 can be thought of as a bundle of ten tens — called a "hundred." b. The numbers 100, 200, 300, 400, 500, 600, 700, 800, 900 refer to one, two, three, four, five, six, seven, eight, or nine hundreds (and 0 tens and 0 ones). problem. We have learned to/that a three-digit number is made up of hundreds, tens, and ones the three digits of a three-digit number represent amounts of hundreds, amounts of tens, and amounts of ones 100 is a bundle of ten tens called a "hundred" The numbers 100, 200, 300, 400, 500, 600, 700, 800, and 900 refer to 1, 2, 3, 4, 5, 6, 7, 8, or 9 hundreds (and 0 tens and 0 ones)	Combine lessons on rounding in order to reduce the amount of time spent on rounding numbers. Limit the amount of required student practice.



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 3.NBT.A.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. We are learning to/that add within 1000 with accuracy and efficiency using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction subtract within 1000 with accuracy and efficiency using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction 	 2.NBT.B.7 Add and subtract within 1000, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method. Understand that in adding or subtracting three-digit numbers, one adds or subtracts hundreds and hundreds, tens and tens, ones and ones; and sometimes it is necessary to compose or decompose tens or hundreds. We have learned to/that use concrete models and a place value strategy to add and subtract within 1000, and relate the written strategy to the model use drawings and a place value strategy to add and subtract within 1000, and relate the written strategy to the drawing use concrete models and a strategy based on properties of operations and/or the relationship between addition and subtraction to add and subtract within 1000, and relate the written strategy to the model use drawings and a strategy based on properties of operations and/or the relationship between addition and subtraction to add and subtract within 1000, and relate the written strategy to the relationship between addition and subtraction to add and subtract within 1000, and relate the written strategy to the drawing 	For curricula well aligned to addition and subtraction within 1000, as detailed in this standard (3.NBT.A.2), no special considerations for shifting how time is dedicated are recommended. Time spent on instruction and practice should not exceed what would be spent in a typical year (3.NBT.A.2).



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 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. We are learning to/that multiply one-digit whole numbers by multiples of 10 in the range 10 to 90 using strategies based on place value and properties of operations 	 2.NBT.A.1 Understand that the three digits of a three-digit number represent amounts of hundreds, tens, and ones; e.g., 706 equals 7 hundreds, 0 tens, and 6 ones. a. 100 can be thought of as a bundle of ten tens—called a "hundred." b. The numbers 100, 200, 300, 400, 500, 600, 700, 800, 900 refer to one, two, three, four, five, six, seven, eight, or nine hundreds (and 0 tens and 0 ones). We have learned to/that a three-digit number is made up of hundreds, tens, and ones the three digits of a three-digit number represent amounts of hundreds, amounts 	Combine lessons in order to reduce the amount of time spent multiplying by multiples of 10. Emphasize the connection to single digit products and tens units (3.NBT.A.3).
	of tens, and amounts of ones 100 is a bundle of ten tens called a "hundred" The numbers 100, 200, 300, 400, 500, 600, 700, 800, and 900 refer to 1, 2, 3, 4, 5, 6, 7, 8, or 9 hundreds (and 0 tens and 0 ones)	



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Domain: Number and Operations - Fractions

Standard and Student Learning Objectives	Previous Grade(s) Standards and Student Learning Objectives	Instructional Considerations SAP recommendation to preserve or reduce time in 20-21 as compared to a typical year
 3.NF.A.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. We are learning to/that a fraction is a quantity formed when a whole is partitioned into equal parts where a unit fraction (1/b) is the quantity formed by 1 part when a whole is partitioned into b equal parts. (For example, ¹/4 is the quantity that is formed by 1 part of the 4 total parts when the whole is partitioned into 4 equal parts) a fraction a/b as the quantity formed by a parts, where each part has a size of 1/b. (For example, ³/4 is the quantity that is formed by 3 parts of the 4 total parts where each part has a size of ¹/4.) 	n/a	Emphasize the concept of unit fraction as the basis of building fractions. Prioritize the number line as a representation to develop students' understanding of fractions as numbers by foregrounding the magnitude, location, and order of fractions among whole numbers (3.NF.A.2).
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 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	2.MD.B.6 Represent whole numbers as lengths from 0 on a number line diagram with equally spaced points corresponding to the numbers 0,1,2, and represent wholenumber sums and differences within 100 on a number line diagram.	Emphasize the concept of unit fraction as the basis of building fractions. Prioritize the number line as a representation to develop students' understanding of fractions as numbers by foregrounding the magnitude, location, and order of fractions among whole numbers (3.NF.A.2).

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and that the endpoint of the part based at 0 locates the number 1/b on the number line. 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. We are learning to/that fractions are numbers and can be found or represented on the number line 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 and recognize that the endpoint of the part based at 0 locates the number 1/b on the number line represent a fraction a/b on a number line diagram by marking off a lengths 1/b from 0 and recognize that the endpoint locates the number a/b on the number line	 use equally spaced points of a number line to represent whole numbers as lengths from 0 represent whole number sums within 100 on a number line diagram represent whole number differences within 100 on a number line diagram 	
 3.NF.A.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. 	n/a	Emphasize the concept of unit fraction as the basis of building fractions. Prioritize the number line as a representation to develop students' understanding of fractions as numbers by foregrounding the



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b. Recognize and generate simple equivalent fractions, e.g., $1/2 = 2/4$, $4/6 = 2/3$). Explain why the fractions are equivalent, e.g., by using a visual fraction model.		magnitude, location, and order of fractions among whole numbers (3.NF.A.2).
 We are learning to/that compare fractions by reasoning about their size two fractions are equivalent (equal) if they are the same size, or the same point on a number line recognize and generate simple equivalent fractions explain why two fractions are equivalent by using a visual fraction model 		
 3.NF.A.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 numbers. <i>Examples:</i> 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. 	n/a	Emphasize the concept of unit fraction as the basis of building fractions. Prioritize the number line as a representation to develop students' understanding of fractions as numbers by foregrounding the magnitude, location, and order of fractions among whole numbers (3.NF.A.2).
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		



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results of comparisons with the symbols >, =, or <. We are learning to/that express whole numbers as fractions recognize fractions that are equivalent to whole numbers compare two fractions with the same numerator or the same denominator by reasoning about their size		



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Domain: Measurement and Data

Standard and Student Learning Objectives	Previous Grade(s) Standards and Student Learning Objectives	Instructional Considerations SAP recommendation to preserve or reduce time in 20-21 as compared to a typical year
 3.MD.A.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. We are learning to/that 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 	n/a	Combine lessons in order to reduce the amount of time spent on time, volume, and mass. Reduce the amount of required student practice. Note: While this cluster is the Major Work of the grade, during the 2020-21 school year, it is recommended that they receive lighter treatment in favor of other major content.
 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. We are learning to/that measure liquid volumes and masses of objects using standard units of grams (g), kilograms (kg), and liters (l) 	 2.MD.B.5 Use addition and subtraction within 100 to solve word problems involving lengths that are given in the same units, e.g., by using drawings (such as drawings of rulers) and equations with a symbol for the unknown to represent the problem. We have learned to/that add and subtract within 100 to solve word problems that involve lengths of the same units use equations with a symbol for the unknown and drawings, such as 	Combine lessons in order to reduce the amount of time spent on time, volume, and mass. Reduce the amount of required student practice. Note: While this cluster is the Major Work of the grade, during the 2020-21 school year, it is recommended that it receives lighter treatment in favor of other major content.

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 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** 	drawings of rulers, to represent the problem	
3.MD.B.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.	2.MD.D.10 Draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories. Solve simple put together, take-apart, and compare problems using information presented in a bar graph. We have learned to/that	Eliminate lessons on creating scaled graphs. Integrate problems with scaled graphs only as settings for multiplication word problems (3.OA.A.3) and two-step word problems (3.OA.D.8).
 We are learning to/that draw a scaled picture graph to represent a data set with several categories draw 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 	 draw a picture graph to represent a data set with up to four categories draw a bar graph to represent a data set with up to four categories use information from a bar graph to solve simple put together, take-apart, and compare problems 	



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 3.MD.B.4 Generate measurement data by measuring lengths using rulers marked with halves and fourths of an inch. Show the data by making a line plot, where the horizontal scale is marked off in appropriate units—whole numbers, halves, or quarters. We are learning to/that generate measurement data by measuring lengths using rulers marked with halves and fourths of an inch make a line plot showing measurement data, where the horizontal scale is marked off in appropriate units—whole numbers, halves, or quarters 	 2.MD.A.1 Measure the length of an object by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes. We have learned to/that measure lengths of objects after selecting appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes 	Limit any lessons that do not strongly reinforce the fraction work of this grade (3.NF.A). Incorporate foundational work measuring rulers (2.MD.A) to support entry into generating fractional measurement data in grade 3.
 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 n square units. We are learning to/that a square with side length 1 unit, called "a unit square," is said to have 'one square unit of area 	 2.MD.A.1 Measure the length of an object by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes. We have learned to/that measure lengths of objects after selecting appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes. 1.G.A.2 Compose two-dimensional shapes (rectangles, squares, trapezoids, triangles, half-circles, and quarter-circles) or three-dimensional shapes (cubes, right rectangular prisms, right circular cones, and 	Emphasize enduring concepts of geometric measurement (iterating a unit with no gaps or overlaps) (3.MD.C.5) and students using area models to support their mathematical explanations involving the distributive property for products (3.MD.C.7c). Combine lessons in order to reduce the amount of time spent on measuring area. Limit the amount of required student practice.

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 a unit square can be used to measure area area is an attribute of a plane figure the number of n square units covering a plane figure without gaps or overlaps, determines its area 	right circular cylinders) to create a composite shape and compose new shapes from the composite shape. We have learned to/that compose two-dimensional shapes (rectangles, squares, trapezoids, triangles, half-circles, and quarter-circles) to create a composite shape	
 3.MD.C.6 Measure areas by counting unit squares (square cm, square m, square in, square ft, and nonstandard units) We are learning to/that measure area by counting unit squares including square cm, square m, square in, square ft, and nonstandard units 	 2.G.A.2 Partition a rectangle into rows and columns of same-size squares and count to find the total number of them. We have learned to/that partition a rectangle into rows and columns of same-size squares and count to find the total number of same size squares 	Emphasize enduring concepts of geometric measurement (iterating a unit with no gaps or overlaps) (3.MD.C.5) and students using area models to support their mathematical explanations involving the distributive property for products (3.MD.C.7c). Combine lessons in order to reduce the amount of time spent on measuring area. Limit the amount of required student practice.
 3.MD.C.7 Relate area to the operations of multiplication and addition. a. Find the area of a rectangle with wholenumber 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 in the context of solving real world and 	n/a	Emphasize enduring concepts of geometric measurement (iterating a unit with no gaps or overlaps) (3.MD.C.5) and students using area models to support their mathematical explanations involving the distributive property for products (3.MD.C.7c). Combine lessons in order to reduce the amount of time spent on measuring area.



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mathematical problems and represent whole- number products as rectangular areas in mathematical reasoning.		Limit the amount of required student practice.
We are learning to/that		
 find the area of a rectangle with whole-number side lengths by tiling it show that a tiled area is the same as can be found by multiplying the side lengths multiply side lengths of rectangles to find areas in the context of real world and mathematical problems represent whole-number products and rectangular areas 		
 3.MD.C.7 Relate area to the operations of multiplication and addition. 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 × b and a × c. Use area models to represent the distributive property in mathematical reasoning. We are learning to/that use tiling to show the area of a rectangle with whole-number side lengths, a and b + c is composed of two additive areas, a × b and a × c 	n/a	Emphasize enduring concepts of geometric measurement (iterating a unit with no gaps or overlaps) (3.MD.C.5) and students using area models to support their mathematical explanations involving the distributive property for products (3.MD.C.7c). Combine lessons in order to reduce the amount of time spent on measuring area. Limit the amount of required student practice.



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 use area models to represent and explain the distribution property by using mathematical reasoning 		
 3.MD.C.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 world problems. We are learning to/that recognize area as additive by finding areas of rectangles recognize area as additive by finding areas of rectilinear figures ** decompose rectilinear figures into non-overlapping rectangles and find their areas to solve real world problems 	n/a	Emphasize enduring concepts of geometric measurement (iterating a unit with no gaps or overlaps) (3.MD.C.5) and students using area models to support their mathematical explanations involving the distributive property for products (3.MD.C.7c). Combine lessons in order to reduce the amount of time spent on measuring area. Limit the amount of required student practice (3.MD.C). Time spent on instruction and practice should not exceed what would be spent in a typical year (3.NBT.A.2).
 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 rectangles with the same perimeter and different areas or with the same area and different perimeters. We are learning to/that solve real world and mathematical problems involving perimeters of 	 2.MD.B.5 Use addition and subtraction within 100 to solve word problems involving lengths that are given in the same units, e.g., by using drawings (such as drawings of rulers) and equations with a symbol for the unknown to represent the problem. We have learned to/that add and subtract within 100 to solve word problems that involve lengths of the same units 	Integrate problems perimeter into the work on area (3.MD.C).



Grade 3: New Jersey Student Learning Standards for Mathematics - Prerequisite Standards and Learning Objectives

Standard and Student Learning Objectives	Previous Grade(s) Standards and Student Learning Objectives	Instructional Considerations SAP recommendation to preserve or reduce time in 20-21 as compared to a typical year
polygons, including finding the perimeter given the side lengths solve real world and mathematical problems involving perimeters of polygons, including finding unknown side lengths when given the perimeter solve real world and mathematical problems involving exhibiting rectangles with the same perimeter/different areas or with the same area/different perimeters	use equations with a symbol for the unknown and drawings, such as drawings of rulers, to represent the problem	



Grade 3: New Jersey Student Learning Standards for Mathematics - Prerequisite Standards and Learning Objectives

Domain: Geometry

Standard and Student Learning Objectives	Previous Grade(s) Standards and Student Learning Objectives	Instructional Considerations SAP recommendation to preserve or reduce time in 20-21 as compared to a typical year
 3.G.A.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. We are learning to/that shapes (quadrilaterals) in different categories may share attributes, and that the shared attributes can define a larger category ** recognize rhombuses, rectangles, and squares as examples of quadrilaterals, and draw examples of quadrilaterals that do not belong to any of these subcategories 	 2.G.A.1 Recognize and draw shapes having specified attributes, such as a given number of angles or a given number of equal faces. Identify triangles, quadrilaterals, pentagons, hexagons, and cubes. We have learned to/that recognize and draw shapes based on their attributes, such as a given number of angles or a given number of equal faces identify cubes, triangles, quadrilaterals, pentagons, and hexagons 	Combine lessons on shapes and their attributes in order to reduce the amount of time spent on this standard.
■ 3.G.A.2 Partition shapes into parts with equal areas. Express the area of each part as a unit fraction of the whole. <i>For example</i> , partition a shape into 4 parts with equal area, and describe the area of each part as ½ of the area of the shape.	2.G.A.3 Partition circles and rectangles into two, three, or four equal shares, describe the shares using the words halves, thirds, half of, a third of, etc., and describe the whole as two halves, three thirds, four fourths. Recognize that equal shares of identical wholes need not have the same shape.	Eliminate separate lessons on partitioning shapes. (3.G.A.2)

Grade 3: New Jersey Student Learning Standards for Mathematics - Prerequisite Standards and Learning Objectives

Standard and Student Learning Objectives	Previous Grade(s) Standards and Student Learning Objectives	Instructional Considerations SAP recommendation to preserve or reduce time in 20-21 as compared to a typical year
We are learning to/that	We have learned to/that	
 partition shapes into parts with equal areas express the area of each part as a unit fraction of the whole 	 partition circles and rectangles into two, three, or four equal shares describe the shares using the words halves, thirds, fourths, half of, a third of, or fourth of describe the whole as two halves, three thirds, four fourths recognize that equal shares of identical wholes need not have the same shape 	

