

Virginia Mathematics Standards of Learning Arrive Math Booster K-8 Correlations

Grade	VA Standard	Strand	Module Title	Lesson Title	Learning Goal
K	K.1a	Number & Quantity	Count to 5	Count to 3 with Dots as Objects	Students will count to 3 by using dots as objects.
K	K.1a	Number & Quantity	Count to 5	Count to 5 with Dots as Objects	Students will count to 5 by using dots as objects.
K	K.1a	Number & Quantity	Count to 6 and 7	Count to 6 and 7 with Dots as Objects	Students will count to 6 and 7 by using dots as objects.
K	K.1a	Number & Quantity	Count to 8 and 9	Count to 8 and 9 with Dots as Objects	Students will count to 8 and 9 by using dots as objects.
K	K.1a	Number & Quantity	Count to 10	Count to 10 with Dots as Objects	Students will count to 10 by using dots as objects.
K	K.1a	Number & Quantity	Count to 10	Identify Sets of 10 Objects	Students will identify sets of up to 10 objects.
K	K.1a	Number & Quantity	Count to 10	Count to 10 from Any Number	Students will count to 10 starting at any number.
K	K.1a	Number & Quantity	Count to 11 and 12	Count to 11 and 12 with Dots as Objects	Students will count to 11 and 12 by using dots as objects.
K	K.1a	Number & Quantity	Count to 11 and 12	Identify Sets of 11 and 12 Objects	Students will identify sets of up to 12 objects.
K	K.1a	Number & Quantity	Count to 13 and 14	Count to 13 and 14 with Dots as Objects	Students will count to 13 and 14 by using dots as objects.
K	K.1a	Number & Quantity	Count to 13 and 14	Identify Sets of 13 and 14 Objects	Students will identify sets of up to 14 objects.
K	K.1a	Number & Quantity	Count to 15	Count to 15 with Dots as Objects	Students will count to 15 by using dots as objects.
K	K.1a	Number & Quantity	Count to 15	Identify Sets of 15 Objects	Students will identify sets of up to 15 objects.
K	K.1a	Number & Quantity	Count to 16 and 17	Count to 16 and 17 with Dots as Objects	Students will count to 16 and 17 by using dots as objects.
K	K.1a	Number & Quantity	Count to 16 and 17	Identify Sets of 16 and 17 Objects	Students will identify sets of up to 17 objects.
K	K.1a	Number & Quantity	Count to 18 and 19	Count to 18 and 19 with Dots as Objects	Students will count to 18 and 19 by using dots as objects.
K	K.1a	Number & Quantity	Count to 18 and 19	Identify Sets of 18 and 19 Objects	Students will identify sets of up to 19 objects.
K	K.1a	Number & Quantity	Count to 20	Count to 20 with Dots as Objects	Students will count to 20 by using dots as objects.
K	K.1a	Number & Quantity	Count to 20	Identify Sets of 20 Objects	Students will identify sets of up to 20 objects.
K	K.1a	Statistical Analysis	Classifying and Counting Objects	Sort by Count	Students will count the number of objects in a category and sort the category by count.
K	K.1a K.1b	Number & Quantity	Count to 5	Recognize Numerals 1, 2, and 3	Students will identify the written numeral that tells the number of objects in a set of up to three objects.

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K	K.1a K.1b	Number & Quantity	Count to 5	Recognize Numerals 1 to 5	Students will identify the written numeral that tells the number of objects in a set of up to five objects.
K	K.1a K.1b	Number & Quantity	Count to 5	Meaning of Zero	Students will demonstrate understanding of the number 0 as a count of no objects.
K	K.1a K.1b	Number & Quantity	Count to 6 and 7	Recognize Numerals 6 and 7	Students will identify the numeral that identifies a set and count up to six and seven objects.
K	K.1a K.1b	Number & Quantity	Count to 8 and 9	Recognize Numerals 8 and 9	Students will demonstrate counting up to eight and nine objects by identifying the number that describes the set.
K	K.1a K.1b	Number & Quantity	Count to 10	Recognize Numeral 10	Students will count up to 10 objects and identify the numeral that describes the set.
K	K.1a K.1b	Number & Quantity	Count to 11 and 12	Recognize Numerals 11 and 12	Students will count up to 11 and 12 objects and identify the numeral that describes the set.
K	K.1a K.1b	Number & Quantity	Count to 5	Identify Sets of 1 to 5 Objects	Students will select the set of objects that matches a given number name to identify sets of up to five objects.
K	K.1a K.1b	Number & Quantity	Count to 13 and 14	Recognize Numerals 13 and 14	Students will count up to 13 and 14 objects and identify the numeral that describes the set.
K	K.1a K.1b	Number & Quantity	Count to 15	Recognize Numeral 15	Students will count up to 15 objects and identify the number that describes the set.
K	K.1a K.1b	Number & Quantity	Count to 16 and 17	Recognize Numerals 16 and 17	Students will count up to 16 and 17 objects and identify the number that describes the set.
K	K.1a K.1b	Number & Quantity	Count to 18 and 19	Recognize Numerals 18 and 19	Students will count up to 18 and 19 objects and identify the number that describes the set.
K	K.1a K.1b	Number & Quantity	Count to 20	Recognize the Numeral 20	Students will count up to 20 objects and identify the number that describes the set.
K	K.1b	Number & Quantity	Count to 5	Create Sets Up to 5	Students will create sets of up to 5 objects.
K	K.1b	Number & Quantity	Count to 5	Write Numbers 1 to 3	Students will read and write the numbers 1, 2, and 3.
K	K.1b	Number & Quantity	Count to 5	Write Numbers 4 and 5	Students will read and write the numbers 4 and 5.
K	K.1b	Number & Quantity	Count to 6 and 7	Identify Sets of 6 and 7 Objects	Students will identify sets of six and seven objects based on a given number.
K	K.1b	Number & Quantity	Count to 6 and 7	Create Sets of 6 and 7	Students will create sets of up to seven objects.
K	K.1b	Number & Quantity	Count to 6 and 7	Write Numbers 6 and 7	Students will read and write the numbers 6 and 7.

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Grade	VA Standard	Strand	Module Title	Lesson Title	Learning Goal
K	K.1b	Number & Quantity	Count to 8 and 9	Create Sets of 8 and 9	Students will create sets of up to nine objects.
K	K.1b	Number & Quantity	Count to 8 and 9	Write Numbers 8 and 9	Students will read and write the numbers 8 and 9.
K	K.1b	Number & Quantity	Count to 10	Create Sets of 10	Students will create sets of up to 10 objects.
K	K.1b	Number & Quantity	Count to 10	Write Number 10	Students will read and write the number 10.
K	K.1b	Number & Quantity	Count to 10	Write Numbers 1 to 10	Students will read and write the numbers 1 to 10.
K	K.1b	Number & Quantity	Count to 11 and 12	Create Sets of 11 and 12	Students will create sets of up to 12 objects.
K	K.1b	Number & Quantity	Count to 11 and 12	Write Numbers 11 and 12	Students will read and write the numbers 11 and 12.
K	K.1b	Number & Quantity	Count to 13 and 14	Create Sets of 13 and 14	Students will create sets of up to 14 objects.
K	K.1b	Number & Quantity	Count to 13 and 14	Write Numbers 13 and 14	Students will read and write the numbers 13 and 14.
K	K.1b	Number & Quantity	Count to 15	Create Sets of 15	Students will create sets of up to 15 objects.
K	K.1b	Number & Quantity	Count to 15	Write Number 15	Students will read and write the number 15.
K	K.1b	Number & Quantity	Count to 16 and 17	Create Sets of 16 and 17	Students will create sets of up to 17 objects.
K	K.1b	Number & Quantity	Count to 16 and 17	Write Numbers 16 and 17	Students will read and write the numbers 16 and 17.
K	K.1b	Number & Quantity	Count to 18 and 19	Create Sets of 18 and 19	Students will create sets of up to 19 objects.
K	K.1b	Number & Quantity	Count to 18 and 19	Write Numbers 18 and 19	Students will read and write the numbers 18 and 19.
K	K.1b	Number & Quantity	Count to 20	Create a Set of 20	Students will create sets of up to 20 objects.
K	K.1b	Number & Quantity	Count to 20	Write Number 20	Students will read and write the number 20.
K	K.2a	Number & Quantity	Count to Compare	Same or Different with Two Groups	Students will compare two groups by counting and determine if the numbers are the same or different.
K	K.2a	Number & Quantity	Count to Compare	Less than 5	Students will compare groups by counting and determine which groups have less than five objects.
K	K.2a	Number & Quantity	Count to Compare	Greater than 5	Students will compare groups by counting and determine which groups have greater than five objects.

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Grade	VA Standard	Strand	Module Title	Lesson Title	Learning Goal
K	K.2a	Number & Quantity	Count to Compare	Less than, Greater than, or Equal to 5	Students will compare groups by counting and determine which groups have greater than, less than, or exactly five objects.
K	K.2a	Number & Quantity	Count to Compare	Less than 10	Students will compare groups of objects by counting and determine which group has less than 10 objects.
K	K.2a	Number & Quantity	Count to Compare	Compare Groups to Find More	Students will compare groups of up to 10 objects by counting and determine which group has more.
K	K.2a	Number & Quantity	Count to Compare	Less than, Greater than, or Equal to 10	Students will compare groups and determine which groups have greater than, less than, or exactly 10 objects.
K	K.2b	Number & Quantity	Count to 8 and 9	Identify Sets of 8 and 9 Objects	Students will identify sets of up to nine objects based on a given number.
K	K.3a	Number & Quantity	Count to 20	Count to 20 Starting at Any Number	Students will count to 20 starting at any number.
K	K.3a	Number & Quantity	Count to 100	Count to 50 by Ones	Students will count to 50 starting at any number.
K	K.3a	Number & Quantity	Count to 100	Count to 100 by Ones	Students will count to 100 starting at any number.
K	K.3a	Number & Quantity	Count Down from 20	Count Up and Down from 1 to 20	Students will count up and down from 1 to 20 starting with any number.
K	K.3a K.3b	Number & Quantity	Compare and Order Numbers 1 to 10	Use a Number Path to Count and Compare	Students will count on a number path and compare numbers between 1 and 10.
K	K.3a K.3b	Number & Quantity	Count Down from 20	Count Up and Down from 1 to 10	Students will count up and down from 1 to 10 starting with any number.
K	K.3b	Number & Quantity	Count Down from 20	Count 5 to 1 with Objects	Students will count down from 5 objects to 1 object.
K	K.3b	Number & Quantity	Count Down from 20	Count Down from 10	Students will count from 10 to 1 starting with any number greater than 1.
K	K.3c	Number & Quantity	Count to 5	Successive Numbers to 5	Students will recognize that each successive number name to five names a quantity that is one larger than the previous number.
K	K.3c	Number & Quantity	Count to 10	Successive Numbers to 10	Students will find that each successive number to 10 names a quantity one larger than the previous number.
K	K.3c	Number & Quantity	Compare and Order Numbers 1 to 10	What Comes After?	Students will use a number path to identify the number that comes after a given number.
K	K.3c	Number & Quantity	Compare and Order Numbers 1 to 10	Compare Numbers 1 to 10	Students will use a number path to compare numbers 1 to 10 and answer questions about number magnitude.
K	K.3c	Number & Quantity	Compare and Order Numbers 1 to 10	Order Numbers 1 to 10	Students will use a number path to order numbers 1 to 10.

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Grade	VA Standard	Strand	Module Title	Lesson Title	Learning Goal
K	K.3c	Number & Quantity	Count to 20	Successive Numbers to 20	Students will recognize that each successive number to 20 names a quantity one larger than the previous number.
K	K.3c	Number & Quantity	Compare and Order Numbers 1 to 10	What Comes Before?	Students will use a number path to identify the number that comes before a given number.
K	K.3d	Number & Quantity	Count to 100	Count to 50 by Tens	Students will count to 50 by tens.
K	K.3d	Number & Quantity	Count to 100	Count to 100 by Tens	Students will count to 100 by counting by tens and identifying the next number.
K	K.43b	Number & Quantity	Count Down from 20	Count Down from 5	Students will count from 5 to 1 starting with any number greater than 1.
K	K.43b	Number & Quantity	Count Down from 20	Count 10 to 1 with Objects	Students will count down from 10 objects to 1 object.
K	K.6	Number & Quantity	Compose and Decompose Numbers 1 to 10	Make (Compose) Numbers to 5	Students will compose sets of two through five objects.
K	K.6	Number & Quantity	Compose and Decompose Numbers 1 to 10	Take Apart (Decompose) Numbers to 5	Students will decompose sets of two through five objects.
K	K.6	Number & Quantity	Compose and Decompose Numbers 1 to 10	Make (Compose) Numbers 6 and 7	Students will compose sets of six and seven objects.
K	K.6	Number & Quantity	Compose and Decompose Numbers 1 to 10	Take Apart (Decompose) Numbers 6 and 7	Students will decompose sets of six and seven objects.
K	K.6	Number & Quantity	Compose and Decompose Numbers 1 to 10	Make (Compose) Numbers 8 and 9	Students will compose sets of eight and nine objects.
K	K.6	Number & Quantity	Compose and Decompose Numbers 1 to 10	Take Apart (Decompose) Numbers 8 and 9	Students will decompose sets of eight and nine objects.
K	K.6	Number & Quantity	Compose and Decompose Numbers 1 to 10	Make (Compose) 10	Students will compose sets of 10 objects.
K	K.6	Number & Quantity	Compose and Decompose Numbers 1 to 10	Take Apart (Decompose) 10	Students will decompose sets of 10 objects.
K	K.6	Number & Quantity	Compose and Decompose Numbers 1 to 10	Compose and Decompose Numbers 1 to 10	Students will compose and decompose numbers 1 to 10.
K	K.6	Operations	Sums to 10	Add to 10	Students will model putting groups together or adding to groups.
K	K.6	Operations	Sums to 10	Use the Plus Sign	Students will model putting groups together or adding to groups using the plus symbol.
K	K.6	Operations	Sums to 10	How Many in All? (Sums to 10)	Students will model putting groups together or adding to groups using addition sentences for sums to 10.
K	K.6	Operations	Sums to 10	Find Missing Numbers to Make 10	Students will find any number from 1 to 9 that makes 10 when added to the given number.
K	K.6	Operations	Subtract from Numbers to 10	Subtract from Any Number to 10	Students will model taking groups apart or taking from groups.
K	K.6	Operations	Subtract from Numbers to 10	Use the Minus Sign	Students will model taking groups apart or taking from groups using the minus sign.

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Grade	VA Standard	Strand	Module Title	Lesson Title	Learning Goal
K	K.6	Operations	Subtract from Numbers to 10	How Many are Left? (Differences to 10)	Students will model taking groups apart or taking from groups using subtraction sentences for differences to 10.
K	K.6	Algebraic Thinking	Add & Subtract Within 5 with Word Problems	Result Unknown within 5 (Add To)	Students will represent and solve an (addition) add to word problem with result unknown, sum within 5.
K	K.6	Algebraic Thinking	Add & Subtract Within 5 with Word Problems	Result Unknown within 5 (Take From)	Students will represent and solve a (subtraction) take from word problem with result unknown, sum within 5.
K	K.6	Algebraic Thinking	Add & Subtract Within 5 with Word Problems	Change Unknown within 5 (Add To)	Students will represent and solve an (addition) add to problem with change unknown, sum within 5.
K	K.6	Algebraic Thinking	Add & Subtract Within 5 with Word Problems	Change Unknown within 5 (Take From)	Students will represent and solve a “take from” word problem with change unknown, sum within 5, by using drawings and manipulatives.
K	K.9	Measurement	Measureable Attributes	Describe and Compare Length	Students will compare the lengths of two objects by describing the objects as longer, shorter, or same length.
K	K.9	Measurement	Measureable Attributes	Describe and Compare Height	Students will compare the heights of two objects by describing the objects as taller, shorter, or same height.
K	K.9	Measurement	Measureable Attributes	Describe and Compare Weight	Students will compare the weights of two objects by describing the objects as heavier, lighter, or same weight.
K	K.9	Measurement	Measureable Attributes	Describe and Compare Capacity	Students will use the words holds more, holds less, and holds the same to compare capacities.
K	K.10a	Geometry	Describe Shapes	Recognize Triangles and Circles	Students will describe and identify triangles and circles.
K	K.10a	Geometry	Describe Shapes	Recognize Rectangles and Squares	Students will describe and identify rectangles and identify squares as special types of rectangles.
K	K.10a	Geometry	Describe Shapes	Recognize 2-D Shapes	Students will describe and identify circles, squares, triangles, rectangles, and hexagons.
K	K.10a	Geometry	Shapes in the Environment	Describe Position of 2-D and 3-D Shapes	Students will locate two-dimensional and three-dimensional shapes in the environment.
K	K.10a	Geometry	Compare 2-D and 3-D Shapes	Compare Squares and Cubes	Students will use informal language to describe squares and cubes.
K	K.10a	Geometry	Compare 2-D and 3-D Shapes	Compare Circles, Cones, and Cylinders	Students will use informal language to describe circles, cones, and cylinders.
K	K.10a	Geometry	Compare 2-D and 3-D Shapes	Name 2-D Flat Shapes on 3-D Solids	Students will use informal language to compare two- and three-dimensional shapes.
K	K.10a	Geometry	Create Shapes	Draw Triangles	Students will identify and draw triangles.
K	K.10a	Geometry	Create Shapes	Draw Squares and Other Rectangles	Students will identify and draw squares and rectangles.
K	K.10a	Geometry	Create Shapes	Draw Hexagons and Circles	Students will identify and draw hexagons and circles.

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Grade	VA Standard	Strand	Module Title	Lesson Title	Learning Goal
K	K.10c	Geometry	Shapes in the Environment	Objects Above and Below	Students will describe and identify objects as above or below other objects.
K	K.10c	Geometry	Shapes in the Environment	Objects Next to and Beside	Students will describe and identify objects as next to or beside other objects.
K	K.12	Measurement	Measureable Attributes	Describe Attributes of an Object	Students will identify measurable attributes of objects such as length, height, weight, and capacity.
K	K.12	Statistical Analysis	Classifying and Counting Objects	Alike and Different Objects	Students will identify objects as alike and different.
K	K.12	Statistical Analysis	Classifying and Counting Objects	Sort Alike and Different Objects	Students will classify objects into two categories.
K	K.12	Statistical Analysis	Classifying and Counting Objects	Count Grouped Objects	Students will sort objects and identify the number of objects in each group.
1	1.1a	Number & Quantity	Numbers to 120	Count to 120	Students will count to 120.
1	1.1a	Number & Quantity	Numbers to 120	Count Numbers 100 to 120	Students will count using numbers 100 to 120.
1	1.1a	Number & Quantity	Compare and Order Numbers Less than 100	Before and After with Numbers 1 to 50	Students will indicate the number before and after a given number from 1 to 50.
1	1.1a	Number & Quantity	Compare and Order Numbers Less than 100	Before and After with Numbers 1 to 100	Students will indicate the numbers before and after a given number that is less than 100.
1	1.1b	Number & Quantity	Numbers to 120	Read and Write Numbers 1 to 50	Students will read and write numbers 1 to 50.
1	1.1b	Number & Quantity	Numbers to 120	Read and Write Numbers 51 to 100	Students will read and write numbers 51 to 100.
1	1.1b	Number & Quantity	Compare and Order Numbers Less than 100	Order Numbers 1 to 100	Students will place up to three numbers less than 100 in the correct positions on a number path.
1	1.2a	Number & Quantity	Place Value to 20	Model Tens and Ones (11–19)	Students will model numbers 11 to 19 by bundling a ten and some more.
1	1.2a	Number & Quantity	Place Value to 20	Combine Tens and Ones (11–19)	Students will combine a set of ten and a set of 1 to 9 objects into a number of 11 to 19 units.
1	1.2a	Number & Quantity	Place Value to 20	Separate Tens and Ones (11–19)	Students will decompose a set of 11 through 19 objects into a set of ten and some ones.
1	1.2a	Number & Quantity	Place Value to 50	Model Tens and Ones (20-49)	Students will model numbers 20 to 49 by using base-ten blocks.
1	1.2a	Number & Quantity	Place Value to 50	Group Ones into Tens and Ones (20-49)	Students will group sets of 20 to 49 objects into sets of tens and leftover ones using base-ten blocks.
1	1.2a	Number & Quantity	Place Value to 50	Separate Tens and Ones into Ones (20-49)	Students will convert sets of 20 to 49 objects from a set of tens and ones to a set of units.
1	1.2a	Number & Quantity	Place Value to 100 (Module 21)	Model Tens and Ones (50–99)	Students will model numbers 50 to 99 by using base-ten blocks.

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1	1.2a	Number & Quantity	Place Value to 100 (Module 21)	Group Tens and Ones (50-99)	Students will describe numbers 50 to 99 as groups of tens and ones.
1	1.2a	Number & Quantity	Place Value to 100 (Module 21)	Separate Tens and Ones into Ones (50-99)	Students will convert sets of 50 to 99 objects from a set of tens and ones to a set of units.
1	1.2a	Number & Quantity	Place Value to 100 (Module 21)	Digits in Numbers 1 to 99	Students will describe the value and place value of each digit in numbers 1 to 99.
1	1.2b	Number & Quantity	Compare and Order Numbers Less than 100	Compare Numbers 1 to 50	Students will compare numbers 1 to 50 and identify the number that is greater than or less than.
1	1.4b	Geometry	Halves and Fourths	Equal Shares of Circles and Rectangles	Student will partition circles and rectangles into two and four equal shares.
1	1.4b	Geometry	Halves and Fourths	Halves	Students will describe two equal partitions as halves and half of.
1	1.4b	Geometry	Halves and Fourths	Fourths and Quarters	Students will describe four equal partitions as fourths and quarters.
1	1.6	Operations	Addition Strategies	Add Numbers in Any Order	Students will use a model to show that the order in which two 1-digit numbers are added does not affect a sum (less than 20).
1	1.6 1.7b	Operations	Addition Concepts	Model Addition with Sums to 10	Students will model addition to 10.
1	1.6 1.7b	Operations	Addition Concepts	Write Addition Sentences (Sums to 10)	Students will write addition number sentences with sums to 10.
1	1.6 1.7b	Operations	Addition Concepts	Vertical Addition Sums to 10	Students will use vertical addition to find sums to 10.
1	1.6 1.7b	Operations	Addition Concepts	Make 10	Students will use models to make sums of 10.
1	1.6 1.7b	Operations	Addition Concepts	True and False Number Sentences	Students will identify addition sentences to 10 as true or false.
1	1.6 1.7b	Operations	Addition Strategies	Add in Any Order	Students will use a model to show that the order in which two 1-digit numbers are added does not affect the sum (to 10).
1	1.6 1.7b	Operations	Addition Strategies	Add Zero	Students will find sums to 10 with 0 as an addend.
1	1.6 1.7b	Operations	Subtraction Concepts	Model Subtraction (Differences to 10)	Students will use drawings to show subtraction from numbers to 10.
1	1.6 1.7b	Operations	Subtraction Concepts	Write Subtraction (Differences to 10)	Students will write subtraction sentences to show subtraction from numbers to 10.
1	1.6 1.7b	Operations	Subtraction Concepts	Vertical Subtraction (Differences to 10)	Students will use vertical subtraction to find differences within 10.
1	1.6 1.7b	Operations	Subtraction Concepts	Find the Unknown in Subtraction to 10	Students will identify the missing number of a subtraction sentence within 10.
1	1.6 1.7b	Operations	Subtraction Concepts	True and False in Subtraction to 10	Students will identify subtraction sentences of numbers within 10 as true or false.

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1	1.6 1.7b	Operations	Subtraction Strategies	Subtract Zero and All within 10	Students will find the difference of zero (0) when subtracting all and will find the difference when subtracting zero (0) using numbers to 10.
1	1.6 1.7b	Operations	Subtraction Strategies	Count Back to Subtract within 10	Students will use objects and counting back to find differences within numbers to 10 to solve a subtraction equation.
1	1.6 1.7b	Operations	Subtraction Strategies	Count Back within 10 on a Number Line	Students will count back 1, 2, and 3 or use a number line to find differences in subtraction within 10.
1	1.6 1.7b	Operations	Subtraction Strategies	Use Doubles to Subtract within 20	Students will use a related doubles addition fact to solve a subtraction doubles fact.
1	1.7a	Operations	Addition Concepts	Unknown Part of 10	Students will find the unknown part of 10.
1	1.9a	Measurement	Telling Time	Analog Time to the Hour	Students will identify the hours on an analog clock to tell time to the hour.
1	1.9a	Measurement	Telling Time	Analog Time to the Half Hour	Students will identify the hours and minutes on an analog clock to tell time to the half hour.
1	1.9a	Measurement	Telling Time	Digital Time to the Hour	Students will identify time to the hour on a digital clock.
1	1.9a	Measurement	Telling Time	Digital Time to the Half Hour	Students will identify time to the half hour on a digital clock.
1	1.9a	Measurement	Telling Time	Analog and Digital Time	Students will read the time displayed on an analog or digital clock and identify the time to the hour and half hour.
1	1.10	Measurement	Compare and Organize Linear Measurements	Long, Longer, Longest	Students will order 3 objects by length from long to longest.
1	1.10	Measurement	Compare and Organize Linear Measurements	Short, Shorter, Shortest	Students will order 3 objects by length from short to shortest.
1	1.10	Measurement	Compare and Organize Linear Measurements	Tall, Taller, Tallest	Students will use the words tall, taller, tallest, and short, shorter, shortest to describe height.
1	1.10	Measurement	Compare and Organize Linear Measurements	Organize Objects by Length	Students will order 3 objects by comparing the lengths of an object to a third object and identifying the correct order from shortest to longest.
1	1.10	Measurement	Measure Length	How to Measure Length Using Units	Students will measure objects with a shorter object representing the length unit and identify the whole number of length units.
1	1.10	Measurement	Measure Length	Use Objects to Measure (Nearest Unit)	Students will measure objects with non-standard tools and identify the nearest unit measurements.
1	1.10	Measurement	Measure Length	Use Non-Standard Units to Measure	Students will measure objects using square tiles and identify the whole number measurement.
1	1.11a 1.11b	Geometry	Characteristics of Shapes	Recognize Open and Closed Shapes	Students will describe attributes of rectangles, squares, and circles to include the terms open and closed.
1	1.11a 1.11b	Geometry	Characteristics of Shapes	Draw Closed Shapes	Students will identify and draw closed shapes such as rectangles, squares, and circles.

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1	1.11a 1.11b	Geometry	Characteristics of Shapes	More Open and Closed Shapes	Students will describe attributes of triangles, hexagons, and trapezoids to include the terms open and closed.
1	1.11a 1.11b	Geometry	Characteristics of Shapes	Draw More Closed Shapes	Students will identify and draw closed shapes such as triangles, hexagons, and trapezoids.
1	1.11a 1.11b	Geometry	Characteristics of Shapes	Compare Shapes	Students will identify defining attributes of shapes such as vertices and sides.
1	1.12a	Statistical Analysis	Basic Tally Charts and Tables	Organize and Show Data in Tally Charts	Students will arrange data with up to three categories in a tally chart.
1	1.12a	Statistical Analysis	Basic Tally Charts and Tables	Use Tally Tables to Make Picture Graphs	Students will use a given tally table to create a picture graph.
1	1.12b	Statistical Analysis	Basic Tally Charts and Tables	Show and Interpret Data in Tally Tables	Students will arrange data with up to three categories in a tally table.
2	2.1a	Number & Quantity	Place Value to 999	Groups of Hundreds	Students will identify a bundle of 10 tens as 100 and multiples of 100 as bundles of one hundred to demonstrate understanding of place value.
2	2.1a	Number & Quantity	Place Value to 999	Model Hundreds, Tens, and Ones	Students will model numbers through 999 using representations of base-ten blocks to demonstrate understanding of place value.
2	2.1a	Number & Quantity	Place Value to 999	Expanded Form (101-999)	Students will read and write numbers within 101 to 999 in expanded form to demonstrate knowledge of numbers from 101 to 999.
2	2.1a	Number & Quantity	Place Value to 999	Understand Numbers to 999	Students will identify the number of hundreds, tens, and ones in a 3-digit number and enter the numeral given the number of hundreds, tens, and ones.
2	2.1a	Number & Quantity	Place Value to 999	Digits in Numbers (100-999)	Students will identify value and place value of digits in numbers 100 to 999 to demonstrate understanding of place value.
2	2.1a	Number & Quantity	Place Value to 999	Regroup Hundreds, Tens, and Ones	Students will regroup using base-ten blocks to create and describe models for numbers 1 to 999 to demonstrate understanding of place value.
2	2.1c	Number & Quantity	Compare and Order Numbers Less than 1,000	Before and After with Numbers < 1,000	Students will indicate the numbers occurring before and after any given numbers less than 1,000.
2	2.1c	Number & Quantity	Compare and Order Numbers Less than 1,000	Compare Whole Numbers < 1,000	Students will compare two whole numbers less than 1,000 and use the appropriate symbol to state the comparison mathematically.
2	2.1c	Number & Quantity	Compare and Order Numbers Less than 1,000	Order Numbers < 1,000	Students will order numbers less than 1,000 and place the numbers in the correct positions on a number line.
2	2.1c	Algebraic Thinking	Whole Numbers on a Number Line	Whole Numbers On a Line	Students will place points on a number line to represent whole numbers.
2	2.1c	Algebraic Thinking	Whole Numbers on a Number Line	Graphs of Whole Numbers	Students will identify whole numbers represented by points on a number line.

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Grade	VA Standard	Strand	Module Title	Lesson Title	Learning Goal
2	2.2a	Number & Quantity	Skip Count to 100	Skip Count by Tens to 100	Students will skip count by tens to 100 from any multiple of 10.
2	2.2a	Number & Quantity	Skip Count to 100	Count Dimes to One Dollar	Students will count dimes to one dollar.
2	2.2a	Number & Quantity	Skip Count to 100	Skip Count by Tens from Any Number	Students will skip count by tens to 100 starting at any number.
2	2.2a	Number & Quantity	Skip Count to 100	Skip Count by Fives to 100	Students will skip count by fives to 100 starting at any multiple of 5.
2	2.2a	Number & Quantity	Skip Count to 100	Count Nickels to One Dollar	Students will count nickels to one dollar.
2	2.2a	Number & Quantity	Skip Count to 100	Skip Count by Twos to 100	Students will skip count by twos to 100.
2	2.2c	Algebraic Thinking	Odd and Even Numbers	Pair Objects to Find Even and Odd	Students will identify a number as odd or even by pairing the given number of objects.
2	2.2c	Algebraic Thinking	Odd and Even Numbers	Equal Addends	Students will write an even number as the sum of two equal addends.
2	2.2c	Algebraic Thinking	Odd and Even Numbers	Skip Count by Twos to Find Even or Odd	Students will identify a number as odd or even by skip counting by twos.
2	2.4a 2.4b	Geometry	Equal Parts	Halves and Fourths	Students will describe two and four equal partitions as halves, fourths, a half of, and a fourth of.
2	2.4a 2.4b	Geometry	Equal Parts	Thirds	Students will describe three equal partitions as thirds and a third of.
2	2.4a 2.4b	Geometry	Equal Parts	Equal Shares of the Same Whole Shape	Students will divide two identical shapes into equal parts in different ways.
2	2.4b	Geometry	Equal Parts	Equal Shares of Whole Shapes	Students will describe the part of a whole partitioned into two, three, or four equal parts as that number of equal shares.
2	2.5a	Operations	Related Facts	Fact Families	Students will identify related addition and subtraction facts.
2	2.5a	Operations	Related Facts	Use a Related Addition Fact to Subtract	Students will find the difference using a related addition fact.
2	2.5a	Operations	Related Facts	Relate Addition and Subtraction	Students will use a related fact to find an unknown number.
2	2.5a 2.5b	Algebraic Thinking	Add & Subtract Compare Word Problems to 20	Difference Unknown to 20 (Compare)	Students will use models and equations to solve for the unknown difference in compare word problems with sums within 20.
2	2.5a 2.5b	Algebraic Thinking	Add & Subtract Compare Word Problems to 20	Bigger Unknown to 20 (Compare)	Students will use models and equations to solve for the bigger unknown in compare word problems with sums within 20.
2	2.5a 2.5b	Algebraic Thinking	Add & Subtract Compare Word Problems to 20	Smaller Unknown to 20 (Compare)	Students will use models and equations to solve for the smaller unknown in compare word problems with sums within 20.

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Grade	VA Standard	Strand	Module Title	Lesson Title	Learning Goal
2	2.5a 2.5b 2.6b	Operations	Add and Subtract using Mental Strategies	Mental Math with Sums to 20	Students will use various math strategies to find sums to 20.
2	2.5a 2.5b 2.6b	Operations	Add and Subtract using Mental Strategies	Mental Math with Differences to 20	Students will use mental strategies to find differences when subtracting within 20.
2	2.5a 2.5b 2.6b	Operations	Add and Subtract using Mental Strategies	Mental Math with Sums and Differences	Students will use mental strategies to find sums or differences within 20.
2	2.6b	Operations	Addition Strategies with Place Value	Take Apart Tens and Ones to Add	Students will decompose the addends to solve 2-digit addition equations within 100.
2	2.6b	Operations	Addition Strategies with Place Value	Regroup Ones as Tens to Add (Models)	Students will solve 2-digit addition equations within 100 by regrouping one s as tens with models.
2	2.6b	Operations	Addition Strategies with Place Value	Regroup Ones as Tens to Add	Students will solve 2-digit addition within 100 when adding a 1-digit number to a 2-digit number.
2	2.6b	Operations	Addition Strategies with Place Value	Add Two 2-Digit Numbers	Students will solve 2-digit addition equations within 100.
2	2.6b	Operations	Subtraction Strategies with Place Value	Subtract-Take Apart Tens and Ones	Students will use a strategy to take apart the tens and ones to solve for the difference.
2	2.6b	Operations	Subtraction Strategies with Place Value	Subtract-Regroup Tens as Ones (Models)	Students will use models to regroup tens as ones to subtract.
2	2.6b	Operations	Subtraction Strategies with Place Value	Subtract-Regroup Tens as Ones (Charts)	Students will use place-value charts to solve 2-digit subtraction within 100.
2	2.6b	Operations	Subtraction Strategies with Place Value	Subtract Two 2-Digit Numbers	Students will regroup tens as ones to solve 2-digit minus 2-digit subtraction within 100.
2	2.6b	Operations	Repeated Addition	Identify Arrays	Students will identify an arrangement of objects in equal rows as an array.
2	2.6b	Operations	Repeated Addition	Solve Repeated Addition with Arrays	Students will identify the number of objects in each row of an array and find the sum.
2	2.6b	Operations	Repeated Addition	Repeated Addition Equations with Arrays	Students will identify and complete the repeated addition equation that describes the array.
2	2.6b	Algebraic Thinking	Add & Subtract Within 50 with Word Problems	Result Unknown within 50 (Add To)	Students will use equations to solve for result unknown in add-to word problems with sums within 50.
2	2.6b	Algebraic Thinking	Add & Subtract Within 50 with Word Problems	Result Unknown within 50 (Take From)	Students will use equations to solve for result unknown in take-from word problems with differences within 50.
2	2.6b	Algebraic Thinking	Add & Subtract Within 50 with Word Problems	Change Unknown within 50 (Add To)	Students will use equations to solve for change unknown in add-to word problems with sums within 50.
2	2.6b	Algebraic Thinking	Add & Subtract Within 50 with Word Problems	Change Unknown within 50 (Take From)	Students will use equations to solve for change unknown in take-from word problems with differences within 50.

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Grade	VA Standard	Strand	Module Title	Lesson Title	Learning Goal
2	2.6b	Algebraic Thinking	Add & Subtract Within 50 with Word Problems	Start Unknown within 50 (Add To)	Students will use equations to solve for start unknown in add-to word problems with sums within 50.
2	2.6b	Algebraic Thinking	Add & Subtract Within 50 with Word Problems 5	Start Unknown within 50 (Take From)	Students will use equations to solve for start unknown in take-from word problems with differences within 50.
2	2.6b	Algebraic Thinking	Join/Take-Apart Word Problems to 50	Total Unknown to 50 (Join/Take Apart)	Students will use equations to solve for the total unknown in put-together/take-apart word problems with sums within 50.
2	2.6b	Algebraic Thinking	Join/Take-Apart Word Problems to 50	Addend Unknown to 50 (Join/Take Apart)	Students will use equations to solve for the unknown addend in put-together/take-apart word problems with sums and differences within 50.
2	2.6b	Algebraic Thinking	Join/Take-Apart Word Problems to 50	Addends Unknown to 50 (Join/Take Apart)	Students will use equations to solve for the unknown addends in put-together/take-apart word problems with sums within 50.
2	2.6b	Algebraic Thinking	Whole Numbers on a Number Line	Graph Whole Numbers	Students will place points on a number line to represent whole number sums and differences.
2	2.6b 2.6c	Algebraic Thinking	Two-Step Addition and Subtraction Word Problems	Two-Step Addition Word Problems	Students will model two-step addition word problems to find the sum.
2	2.6b 2.6c	Algebraic Thinking	Two-Step Addition and Subtraction Word Problems	Two-Step Subtraction Word Problems	Students will use equations to solve two-step subtraction word problems to find the difference.
2	2.6b 2.6c	Algebraic Thinking	Two-Step Addition and Subtraction Word Problems	Add & Subtract in Two-Step Word Problems	Students will use equations to solve two-step subtraction and addition word problems to find the sum or difference.
2	2.6b 2.6c	Measurement	Use Number Lines to Determine Length	Use Number Lines to Add Lengths	Students will use a number line to find sums of lengths within 100.
2	2.6b 2.6c	Measurement	Use Number Lines to Determine Length	Use Number Lines to Subtract Lengths	Students will use a number line to find differences of lengths within 100.
2	2.6b 2.6c	Measurement	Word Problems Using Length	Addition Word Problems Using Length	Students will solve addition word problems involving lengths within 100 using drawings.
2	2.6b 2.6c	Measurement	Word Problems Using Length	Subtraction Word Problems Using Length	Students will solve subtraction word problems involving lengths within 100 using drawings.
2	2.6b 2.6c	Measurement	Word Problems Using Length	Word Problem Equations (Add Length)	Students will solve addition problems involving lengths with 100 using equations.
2	2.6b 2.6c	Measurement	Word Problems Using Length	Word Problem Equations (Subtract Length)	Students will solve subtraction problems involving lengths within 100 using equations.

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Grade	VA Standard	Strand	Module Title	Lesson Title	Learning Goal
2	2.7a	Measurement	Recognize and Count U.S. Coins and Bills	Pennies, Nickels, Dimes	Students will recognize the value of pennies, nickels, and dimes and count how many of each coin.
2	2.7a	Measurement	Recognize and Count U.S. Coins and Bills	Pennies, Nickels, Dimes, Quarters	Students will recognize the value of pennies, nickels, dimes, and quarters and count how many of each coin.
2	2.7a	Measurement	Determine the Amount of Money	Total Value of Pennies, Nickels, Dimes	Students will count on to determine the value of a group of pennies, nickels, and/or dimes.
2	2.7a	Measurement	Determine the Amount of Money	Total Value of All Coins	Students will sort and count on to determine the value of a group of pennies, nickels, dimes, and/or quarters.
2	2.7a	Measurement	Determine the Amount of Money	Word Problems with Coins	Students will use models and count on to solve word problems involving coins.
2	2.7a	Measurement	Equal Amounts of Money	Equal Values of Pennies, Nickels, Dimes	Students will compare totals to identify groups of coins (pennies, nickels, and dimes) having equal values.
2	2.7a	Measurement	Equal Amounts of Money	Groups of Coins with Equal Value	Students will compare totals to identify groups of coins (pennies, nickels, dimes, and quarters) having equal values.
2	2.7a 2.7b	Measurement	Recognize and Count U.S. Coins and Bills	Coins from Greatest to Least in Value	Students will sort and place denominations into groups and into a sequence from greatest value to least value.
2	2.7a 2.7b	Measurement	Recognize and Count U.S. Coins and Bills	\$1, \$5, \$10, and \$20 Bills	Students will recognize the value of one-, five-, ten-, and twenty-dollar bills and count how many of each bill.
2	2.7a 2.7b	Measurement	Recognize and Count U.S. Coins and Bills	Bills from Greatest to Least in Value	Students will sort and place dollar denominations into groups and into a sequence from greatest value to least value.
2	2.7a 2.7b	Measurement	Determine the Amount of Money	Total Value of \$1, \$5, \$10, \$20	Students will determine the value of a collection of one-, five-, ten-, and/or twenty-dollar bills by counting on to find the total amount of all dollar bills.
2	2.7a 2.7b	Measurement	Determine the Amount of Money	Word Problems with Dollar Bills	Students will use models and count on to solve word problems involving dollar bills.
2	2.7a 2.7b	Measurement	Equal Amounts of Money	Groups of Coins that Equal \$1	Students will identify the value of a one-dollar bill using coins that are equivalent in value to one dollar.
2	2.7a 2.7b	Measurement	Equal Amounts of Money	Groups of Dollar Bills with Equal Value	Students will compare totals to identify groups of dollar bills (ones, fives, tens, and twenties) having equal values.

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Grade	VA Standard	Strand	Module Title	Lesson Title	Learning Goal
2	2.8a	Measurement	Linear Measurement with Customary Units	Measure Length in Inches	Students will show how to measure the length of objects in inches.
2	2.8a	Measurement	Linear Measurement with Customary Units	Estimate/Measure Length in Inches	Students will make educated guesses to estimate linear measurements in inches and check them by measuring.
2	2.8a	Measurement	Linear Measurement with Customary Units	Measure Length in Feet	Students will show how to measure objects in feet.
2	2.8a	Measurement	Linear Measurement with Customary Units	Estimate/Measure Length in Feet	Students will make educated guesses to estimate linear measurements in feet and check them by measuring.
2	2.8a	Measurement	Compare Measurements of Length	Compare Lengths Measured in Inches	Students will measure to determine how much longer in inches one object is than another.
2	2.8a	Measurement	Measuring Length with Customary Units	Measure with 2 Units (Feet and Inches)	Students will measure the same object twice using different customary units (feet and inches) and identify the two different measurements.
2	2.8a	Measurement	Measuring Length with Customary Units	Relate Inches, Feet, and Yards	Students will describe how the size of the unit length (e.g., inch, foot, and yard) affects the measurement.
2	2.9	Measurement	Telling Time in Smaller Increments	Tell Time to the Quarter Hour	Students will identify time to the nearest 15 minutes on analog and digital clocks.
2	2.9	Measurement	Telling Time in Smaller Increments	Tell Time in Five-Minute Intervals	Students will identify time to the nearest 5 minutes on analog and digital clocks.
2	2.9	Measurement	Telling Time in Smaller Increments	Tell Time Using A.M. and P.M.	Students will use daily activities and time on a clock to identify the difference between a.m. and p.m.
2	2.13	Geometry	Attributes	Choose 3-D Shapes Based on Attributes	Students will use attributes of three -dimensional shapes to identify shapes.
2	2.13	Geometry	Attributes	Identify and Name Quadrilaterals	Students will identify quadrilaterals using sides and angles.
2	2.13	Geometry	Attributes	Identify Shapes Based on Sides & Angles	Students will identify triangles, quadrilaterals, pentagons, hexagons, and cubes using sides, faces, or angles.
2	2.15a	Statistical Analysis	Single-unit Scale Picture and Bar Graphs	Organize and Show Data in Picture Graphs	Students will create picture graphs using data from a table.
2	2.15a	Statistical Analysis	Single-unit Scale Picture and Bar Graphs	Organize and Show Data in Bar Graphs	Students will create single-unit scale bar graphs from a table.
2	2.15b	Statistical Analysis	Single-unit Scale Picture and Bar Graphs	Interpret Data in Picture Graphs	Students will interpret single-unit scale picture graphs.
2	2.15b	Statistical Analysis	Single-unit Scale Picture and Bar Graphs	Interpret Data in Bar Graphs	Students will interpret single-unit scale bar graphs.
2	2.15b	Statistical Analysis	Single-unit Scale Picture and Bar Graphs	Solve for Sums Using Bar Graphs	Students will solve “put together” problems using single-unit scale bar graphs.

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Grade	VA Standard	Strand	Module Title	Lesson Title	Learning Goal
2	2.15b	Statistical Analysis	Single-unit Scale Picture and Bar Graphs	Solve for Differences Using Bar Graphs	Students will solve “take apart” and “compare” problems using single-unit scale bar graphs.
3	3.1b	Number & Quantity	Round Whole Numbers Less than 1,000	Round 2-Digit Numbers (Nearest 10)	Students will round numbers between 1 and 100 to the nearest ten.
3	3.1b	Number & Quantity	Round Whole Numbers Less than 1,000	Round 3-Digit Numbers (Nearest 10)	Students will round numbers between 100 and 1,000 to the nearest ten.
3	3.1b	Number & Quantity	Round Whole Numbers Less than 1,000	Round 3-Digit Numbers (Nearest 100)	Students will round numbers between 100 and 1,000 to the nearest hundred.
3	3.2a	Number & Quantity	Introduction to Fractional Numbers	Understand Unit Fractions	Students will identify unit fractions.
3	3.2a 3.2b	Number & Quantity	Introduction to Fractional Numbers	Equal Parts of a Whole	Students will demonstrate understanding of equal parts of a whole.
3	3.2a 3.2b	Number & Quantity	Introduction to Fractional Numbers	Fractions with Numerators Greater Than 1	Students will demonstrate understanding of fractions with numerators greater than 1.
3	3.2a 3.2b	Number & Quantity	Introduction to Fractional Numbers	Fractions Equivalent to 1 Whole	Students will recognize and generate fractions equal to one.
3	3.2a 3.2b	Number & Quantity	Introduction to Fractional Numbers	Intervals on a Number Line	Student will demonstrate understanding of number line intervals.
3	3.2a 3.2b	Number & Quantity	Introduction to Fractional Numbers	Unit Fractions on a Number Line	Students will demonstrate understanding of unit fractions on a number line.
3	3.2a 3.2b	Number & Quantity	Introduction to Fractional Numbers	Fractions on a Number Line	Students will identify fractions on a number line.
3	3.2a 3.2b	Number & Quantity	Introduction to Fractional Numbers	Fractions Greater Than 1 on Number Lines	Students will identify fractions greater than 1 on a number line.
3	3.2a 3.2b	Number & Quantity	Introduction to Fractional Numbers	Mixed Numbers on a Number Line	Students will identify mixed numbers on a number line.
3	3.2a 3.2b	Number & Quantity	Model Equivalent Fractions	Equivalent Fractions with Models	Students will make equivalent fractions using models.
3	3.2a 3.2b	Number & Quantity	Model Equivalent Fractions	Equivalent Fractions Using Number Lines	Students will use a number line to find equivalent fractions.
3	3.2a 3.2b	Number & Quantity	Model Equivalent Fractions	Recognize Equivalent Fractions	Students will recognize simple equivalent fractions.
3	3.2a 3.2b	Number & Quantity	Model Equivalent Fractions	Equivalent Fractions with Whole Numbers	Students will recognize fractions equal to a whole number.
3	3.2c	Number & Quantity	Compare Common-Part Fractions	Compare Unit Fractions	Students will compare two unit fractions.
3	3.2c	Number & Quantity	Compare Common-Part Fractions	Compare Common-Numerator Fractions	Students will compare two fractions with the same numerator.
3	3.2c	Number & Quantity	Compare Common-Part Fractions	Compare Common-Denominator Fractions	Students will compare two fractions with the same denominator.
3	3.2c	Number & Quantity	Compare Common-Part Fractions	Compare Fractions Greater Than One	Students will demonstrate understanding of fractions by comparing fractions greater than or equal to one with common numerators or denominators.

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Grade	VA Standard	Strand	Module Title	Lesson Title	Learning Goal
3	3.2c	Number & Quantity	Compare Common-Part Fractions	Compare Fractions	Students will demonstrate understanding of fractions by comparing fractions with common denominators or common numerators.
3	3.2c	Number & Quantity	Compare Common-Part Fractions	Order Common-Denominator Fractions	Students will demonstrate understanding of fractions by ordering fractions greater than or equal to one with common denominators.
3	3.3a	Algebraic Thinking	Evaluate the Reasonableness of Answers	Evaluate Solutions for Reasonableness	Students will compare an estimated answer for an addition or subtraction equation to the solution to examine the reasonableness.
3	3.3a	Algebraic Thinking	Evaluate the Reasonableness of Answers	Reasonableness in One-Step Word Problems	Students will compare an estimated answer to the solution to examine the reasonableness of a solution to a one-step word problem.
3	3.3a 3.3b	Operations	Adding and Subtracting Multi-Digit Numbers	Add 3- and 2-Digit Numbers	Students will solve addition problems involving 3- and 2-digit numbers.
3	3.3a 3.3b	Operations	Adding and Subtracting Multi-Digit Numbers	Add Two 3-Digit Numbers	Students will solve addition problems involving two 3-digit numbers.
3	3.3a 3.3b	Operations	Adding and Subtracting Multi-Digit Numbers	Subtract 3- & 2-Digits (No Regrouping)	Students will solve subtraction problems involving 3- and 2-digit numbers without regrouping.
3	3.3a 3.3b	Operations	Adding and Subtracting Multi-Digit Numbers	Subtract 3- & 2-Digit Numbers (Regroup)	Students will solve subtraction problems involving 3- and 2-digit numbers with regrouping.
3	3.3a 3.3b	Operations	Adding and Subtracting Multi-Digit Numbers	Subtract 3-Digit Numbers across Zeros	Students will solve subtracting across zeros problems.
3	3.3a 3.3b	Operations	Adding and Subtracting Multi-Digit Numbers	Add and Subtract 3- & 2-Digit Numbers	Students will solve addition and subtraction problems involving 3- and 2-digit numbers.
3	3.3b	Algebraic Thinking	Solve Two-Step Word Problems	Add and Subtract in Word Problems	Students will use models to make equations to solve two-step word problem involving addition and subtraction with an unknown quantity.
3	3.4a	Operations	Multiplication Models	Model Multiplication (Objects)	Students will identify the context, the model or the equation to demonstrate understanding of multiplication.
3	3.4a	Operations	Multiplication Models	Model Multiplication (Repeated Addition)	Students will use repeated addition to model multiplication.
3	3.4a	Operations	Multiplication Models	Model Multiplication (Arrays)	Students will identify multiplication equations to demonstrate understanding of arrays.
3	3.4a	Operations	Multiplication and Properties	Reorder Factors	Students will informally apply the Commutative Property to identify related facts and solve for products.
3	3.4a	Operations	Multiplication and Properties	Multiply Three Numbers	Students will informally apply the Associative Property to multiply three numbers.
3	3.4a	Operations	Multiplication and Properties	Regroup Factors to Multiply	Students will multiply by informally applying the Distributive Property to regroup factors.
#NAME?	3.4a	Operations	Introduction to Division	Relate Multiplication and Division Facts	Students will identify related multiplication and division facts.

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Grade	VA Standard	Strand	Module Title	Lesson Title	Learning Goal
3	3.4a 3.4b	Operations	Introduction to Division	Unknown Group Size (Equal Groups)	Students will use models to solve division equations with group size unknown.
3	3.4a 3.4b	Operations	Introduction to Division	Unknown Number of Groups (Equal Groups)	Students will use models to solve division equations with number of groups unknown.
3	3.4a 3.4b	Operations	Introduction to Division	Relate Division and Subtraction	Students will solve division equations by using repeated subtraction.
3	3.4a 3.4b	Operations	Introduction to Division	Relate Facts to Solve Division Problems	Students will relate division problems to multiplication factors in order to solve.
3	3.4a 3.4b	Operations	Introduction to Division	Multiplication and Division Facts	Students will answer true/false questions to demonstrate knowledge of multiplication and division facts.
3	3.4a 3.4b	Algebraic Thinking	Model to Multiply & Divide in Word Problems	Model Equal Groups (Unknown Product)	Students will solve equal group multiplication word problems with unknown products.
3	3.4a 3.4b	Algebraic Thinking	Model to Multiply & Divide in Word Problems	Model Equal Groups (Unknown Size)	Students will use models with equal groups to solve multiplication and division word problems with unknown group sizes.
3	3.4a 3.4b	Algebraic Thinking	Model to Multiply & Divide in Word Problems	Model Equal Groups (Unknown Number)	Students will use models with equal groups to solve multiplication and division word problems with an unknown number of groups.
3	3.4a 3.4b	Algebraic Thinking	Model to Multiply & Divide in Word Problems	Arrays with Unknown Products	Students will use arrays to solve multiplication word problems with an unknown product.
3	3.4a 3.4b	Algebraic Thinking	Model to Multiply & Divide in Word Problems	Arrays with Unknown Group Size	Students will use array models to solve multiplication and division word problems with an unknown group size
3	3.4a 3.4b	Algebraic Thinking	Model to Multiply & Divide in Word Problems	Arrays with Unknown Number of Groups	Students will use array models to solve multiplication and division word problems with an unknown number of groups.
3	3.4a 3.4b	Algebraic Thinking	Model to Multiply & Divide in Word Problems	Comparison Models with Unknown Products	Students will solve multiplication word problems with unknown products by using comparison models.
3	3.4a 3.4b	Algebraic Thinking	Model to Multiply & Divide in Word Problems	Compare (Group Size Unknown)	Students will use models to solve multiplication and division word problems with group size unknown.
3	3.4a 3.4b	Algebraic Thinking	Model to Multiply & Divide in Word Problems	Compare (Number of Groups Unknown)	Students will solve multiplication and division word problems with an unknown number of groups by using comparison models.
3	3.4a 3.4b	Algebraic Thinking	Multiply & Divide to Solve Word Problems	Equal Groups Word Problems (Equations)	Students will use equations to solve multiplication and division word problems with equal groups.
3	3.4a 3.4b	Algebraic Thinking	Multiply & Divide to Solve Word Problems	Word Problems with Arrays (Equations)	Students will use equations to solve multiplication and division word problems with arrays.
3	3.4a 3.4b	Algebraic Thinking	Multiply & Divide to Solve Word Problems	Comparison Word Problems (Equations)	Students will use equations to solve comparison multiplication and division word problems with models.

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Grade	VA Standard	Strand	Module Title	Lesson Title	Learning Goal
3	3.4a 3.4b	Algebraic Thinking	Multiply & Divide to Solve Word Problems	Word Problems Using Equations	Students will use models and equations to solve multiplication and division word problems.
3	3.4b	Operations	Multiplication Facts	Multiplication Facts (3s and 6s)	Students will solve multiplication facts involving factors 3 and 6.
3	3.4b	Operations	Multiplication Facts	Multiplication Facts (4s and 8s)	Students will solve multiplication facts involving factors 4 and 8.
3	3.4b	Operations	Multiplication Facts	Multiplication Facts (7s)	Students will solve multiplication facts with 7 as a factor.
3	3.4b	Operations	Multiplication Facts	Multiplication Facts (9s)	Students will solve multiplication facts with 9 as a factor.
3	3.4b	Operations	Multiplication Facts	Missing Factors	Students will identify the missing factor that completes a multiplication equation.
3	3.4b	Operations	Multiplication and Properties	Multiply 1-Digit by Multiples of 10	Students will solve problems involving multiplication of one-digit numbers by multiples of 10.
3	3.4b	Operations	Introduction to Division	Unknowns in Division Equations	Students will determine the unknown number in division equations.
3	3.4b 3.4c	Operations	Multiplication Facts	Multiplication Facts (1s, 2s, 5s, and 10s)	Students will solve multiplication facts involving factors 1, 2, 5, and 10.
3	3.7b	Measurement	Metric Units of Liquid Volume	Liquid Volume in Metric Units	Students will describe metric liquid volume in liters and milliliters.
3	3.7b	Measurement	Metric Units of Liquid Volume	Estimate Liquid Volume in Metric Units	Students will estimate liquid volume in liters and milliliters.
3	3.7b	Measurement	Metric Units of Liquid Volume	Liquid Volume Word Problems	Students will solve liquid volume word problems involving all four operations.
3	3.8a	Measurement	Perimeter	Perimeter of Polygons	Students will calculate the perimeter of polygons.
3	3.8a	Measurement	Perimeter	Calculate Perimeter Using a Grid	Students will calculate perimeter the perimeter of a polygon on a grid.
3	3.8a	Measurement	Perimeter	Perimeter with Unknown Sides	Students will calculate unknown side lengths.
3	3.8a	Measurement	Perimeter	Perimeter Word Problems	Students will solve perimeter word problems.
3	3.8a 3.8b	Measurement	Rectilinear Area	Area and Perimeter Relationships	Student will recognize rectangles with the same perimeter but different areas or rectangles with different perimeters but the same area.
3	3.8b	Measurement	Introduction to Area	Area Using Tiling and Counting	Students will measure the area of rectilinear figures by tiling using unit squares or counting unit squares on a grid.
3	3.8b	Measurement	Introduction to Area	Area Using Addition	Students will use addition to find the area of a rectilinear figure.
3	3.8b	Measurement	Introduction to Area	Area Using Multiplication	Students will use multiplication to find the area of a rectangle.
3	3.8b	Measurement	Introduction to Area	Area Word Problems	Students will solve area word problems.

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Grade	VA Standard	Strand	Module Title	Lesson Title	Learning Goal
3	3.8b	Measurement	Rectilinear Area	Area Using the Distributive Property	Students will use models and apply the distributive property to find the area of rectangles.
3	3.8b	Measurement	Rectilinear Area	Decompose Shapes to Find Area (Grids)	Students will find the area of rectilinear shapes using a grid.
3	3.8b	Measurement	Rectilinear Area	Decompose Shapes to Find Area	Students will find the area of rectilinear shapes.
3	3.9a	Measurement	Tell Time to the Minute	Time to the Nearest Minute	Students will tell time to the nearest minute on an analog clock.
3	3.9a	Measurement	Tell Time to the Minute	Clocks to the Nearest Minute	Students will identify the correct analog clock when given the time.
3	3.9b	Measurement	Tell Time to the Minute	Intervals of Time Using a Number Line	Students will demonstrate understanding of time by identifying and describing intervals and time on a number line.
3	3.9b	Measurement	Tell Time to the Minute	Add Intervals of Time	Students will solve addition word problems involving time by using a number line.
3	3.9b	Measurement	Tell Time to the Minute	Subtract Intervals of Time	Students will solve subtraction word problems involving time by using a number line.
3	3.12b	Geometry	Quadrilaterals and Partitioned Shapes	Quadrilaterals & Parallelograms	Students will recognize quadrilaterals, parallelograms, and their attributes.
3	3.12b	Geometry	Quadrilaterals and Partitioned Shapes	Draw & Recognize Quadrilaterals	Students will draw and recognize quadrilaterals including squares, rectangles, and rhombuses and their attributes.
3	3.12c	Geometry	Quadrilaterals and Partitioned Shapes	Fractional Parts with Unit Fractions	Students will identify equally partitioned shapes labeled with unit fractions.
3	3.15a	Statistical Analysis	Scaled Picture and Bar Graphs	Create Scaled Pictographs	Students will create scaled pictographs from given data.
3	3.15a	Statistical Analysis	Scaled Picture and Bar Graphs	Create Scaled Bar Graphs	Students will create scaled bar graphs from given data.
3	3.15b	Statistical Analysis	Scaled Picture and Bar Graphs	Interpret Scaled Pictographs	Students will interpret scaled picture graphs.
3	3.15b	Statistical Analysis	Scaled Picture and Bar Graphs	Interpret Scaled Bar Graphs	Students will use interpret given data and solve one- and two-step word problems using scaled bar graphs.
3	3.16	Algebraic Thinking	Patterns in Arithmetic	Addition Table Patterns	Students will use an addition table to identify arithmetic patterns with an addend of zero and involving the order of addends.
3	3.16	Algebraic Thinking	Patterns in Arithmetic	Even and Odd Addition Patterns	Students will use an addition table to identify arithmetic patterns with even and odd numbers.
3	3.16	Algebraic Thinking	Patterns in Arithmetic	Zero and One Factor Patterns	Students will use a multiplication table to identify arithmetic patterns involving the products of the factors zero and one.
3	3.16	Algebraic Thinking	Patterns in Arithmetic	Patterns with Order of Factors	Students will use a multiplication table to identify arithmetic patterns involving the order of factors.

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Grade	VA Standard	Strand	Module Title	Lesson Title	Learning Goal
3	3.16	Algebraic Thinking	Patterns in Arithmetic	Five, Nine, and Ten Factor Patterns	Students will use a multiplication table to identify arithmetic patterns with products of the factors five, nine, and ten.
3	3.16	Algebraic Thinking	Patterns in Arithmetic	Even and Odd Multiplication Patterns	Students will use a multiplication table to identify arithmetic patterns with even and odd numbers.
4	4.1a	Number & Quantity	Place Value to 9,999	Digits in Numbers (1-9,999)	Students will demonstrate understanding of place value of digits in numbers through 9,999.
4	4.1a	Number & Quantity	Place Value to 9,999	Standard Form through 9,999	Students will identify numbers through 9,999 in standard form.
4	4.1a	Number & Quantity	Place Value to 9,999	Word Form through 9,999	Students will identify numbers through 9,999 in word form.
4	4.1a	Number & Quantity	Place Value to 9,999	Expanded Form through 9,999	Students will read and write numbers through 9,999 in expanded form.
4	4.1a	Number & Quantity	Place Value to 99,999	Place Value through 99,999	Students will identify value and place value of digits in numbers through 99,999.
4	4.1a	Number & Quantity	Place Value to 99,999	Standard Form through 99,999	Students will read and write numbers through 99,999 in standard form.
4	4.1a	Number & Quantity	Place Value to 99,999	Word Form through 99,999	Students will read and write numbers through 99,999 in word form.
4	4.1a	Number & Quantity	Place Value to 99,999	Expanded Form through 99,999	Students will identify numbers through 99,999 in expanded form.
4	4.1a	Number & Quantity	Place Value to 99,999	Ten Times as Great	Students will recognize that a digit in one place represents ten times what it represents in the place value to the right.
4	4.1a	Number & Quantity	Place Value Beyond 99,999	Digits in Numbers (1-999,999)	Students will identify the place and value of digits in numbers through 999,999.
4	4.1a	Number & Quantity	Place Value Beyond 99,999	Standard & Word Form through 999,999	Students will identify numbers through 999,999 in standard and word form.
4	4.1a	Number & Quantity	Place Value Beyond 99,999	Expanded Form through 999,999	Students will identify numbers through 999,999 in expanded form.
4	4.1b	Number & Quantity	Place Value Beyond 99,999	Compare & Order Numbers through 999,999	Students will compare and order numbers through 999,999.
4	4.1c	Number & Quantity	Round Whole Numbers	4-Digit Numbers to the Nearest 1,000	Students will round numbers between 1,000 and 10,000 to the nearest thousand.
4	4.1c	Number & Quantity	Round Whole Numbers	Round to Any Place	Students will learn the rules for rounding any number through 999,999 to any place.
4	4.2a	Number & Quantity	Improper Fractions and Mixed Numbers	Introduction to Improper Fractions	Students will read and write improper fractions.
4	4.2a	Number & Quantity	Improper Fractions and Mixed Numbers	Introduction to Mixed Numbers	Students will read and write mixed numbers.
4	4.2a	Number & Quantity	Compare Fractions with Uncommon Denominators	Compare Fractions Using Visual Models	Students will compare two fractions with unlike denominators using visual models.
4	4.2a	Number & Quantity	Compare Fractions with Uncommon Denominators	Compare Using Benchmark One Half	Students will compare two fractions with unlike denominators using the benchmark fraction $\frac{1}{2}$.

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Grade	VA Standard	Strand	Module Title	Lesson Title	Learning Goal
4	4.2a	Number & Quantity	Compare Fractions with Uncommon Denominators	Compare with Fractions Equal to 1	Students will compare 2 fractions with unlike denominators using the benchmark fractions equal to 1.
4	4.2a	Number & Quantity	Compare Fractions with Uncommon Denominators	Determine the Common Denominator	Students will determine the common denominator by forming equivalent fractions.
4	4.2a	Number & Quantity	Compare Fractions with Uncommon Denominators	Use Common Denominators to Compare	Students will compare two fractions with unlike denominators using a common denominator.
4	4.2b	Number & Quantity	Improper Fractions and Mixed Numbers	Improper Fractions to Mixed Numbers	Students will convert improper fractions to mixed numbers to show equivalency.
4	4.2b	Number & Quantity	Improper Fractions and Mixed Numbers	Mixed Numbers to Improper Fractions	Students will convert mixed numbers to improper fractions to show equivalency.
4	4.2b	Number & Quantity	Fractions and Decimals	Equivalent Fractions in 10ths and 100ths	Students will identify equivalent fractions with denominators of 10 and 100.
4	4.2b	Number & Quantity	Equivalent Fractional Numbers	Equivalent Fractions with Multiplication	Students will use multiplication to recognize equivalent fractions.
4	4.2b	Number & Quantity	Equivalent Fractional Numbers	Equivalent Fractions with Division	Students will use division to recognize equivalent fractions.
4	4.2b	Number & Quantity	Equivalent Fractional Numbers	Equivalent Fractions	Students will recognize equivalent fractions with multiplication or division.
4	4.3d	Number & Quantity	Fractions and Decimals	Decimal Fractions in 10ths	Students will identify tenths as fractions and decimals.
4	4.3d	Number & Quantity	Fractions and Decimals	Decimal Fractions in 100ths	Students will identify hundredths as fractions and decimals.
4	4.3d	Number & Quantity	Compare Fractional and Decimal Numbers	Compare Fractions & Decimals in 10ths	Students will compare fractions and decimal numbers in tenths.
4	4.3d	Number & Quantity	Compare Fractional and Decimal Numbers	Compare Fractions & Decimals in 100ths	Students will compare fractions and decimal numbers in hundredths.
4	4.3d	Number & Quantity	Compare Fractional and Decimal Numbers	Compare Fractions and Decimal Numbers	Students will compare fractions and decimal numbers less than one.
4	4.3d	Number & Quantity	Compare Fractional and Decimal Numbers	Order Fractions and Decimal Numbers	Students will order fractions and decimal numbers greater than or equal to one.
4	4.4a	Number & Quantity	Divisibility	Divisibility Rules for 2, 5, and 10	Students will determine whether a whole number is divisible by 2, 5, or 10.
4	4.4a	Number & Quantity	Divisibility	Divisibility Rules for 3 and 9	Students will determine if a whole number is divisible by 3 or 9.
4	4.4a	Number & Quantity	Divisibility	Divisibility Rules for 6	Students will determine if a whole number is divisible by 6.
4	4.4a	Number & Quantity	Divisibility	Divisibility Rules for 4 and 8	Students will determine if a whole number is divisible by 4 or 8.

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Grade	VA Standard	Strand	Module Title	Lesson Title	Learning Goal
4	4.4a	Number & Quantity	Divisibility	Divisibility with Whole Numbers	Students will determine the divisibility of a number by 2, 3, 4, 5, 6, 8, 9, and 10.
4	4.4a 4.4b	Operations	Multiply with One-Digit Numbers	Multiply by Multiples of 10	Students will use basic facts and patterns to multiply multiples of 10 by 1-digit numbers.
4	4.4b	Operations	Use the Standard Algorithm to Add & Subtract	Add Multi-Digit Numbers	Students will use the standard algorithm to find the sum of two multi-digit numbers.
4	4.4b	Operations	Use the Standard Algorithm to Add & Subtract	Subtract Multi-Digit Numbers	Students will use the standard algorithm to find the difference of two multi-digit numbers.
4	4.4b	Operations	Use the Standard Algorithm to Add & Subtract	Regroup with Zeros	Students will use the standard algorithm to find the difference of two multi-digit numbers involving zeros.
4	4.4b	Operations	Multiply with One-Digit Numbers	Multiply 2- by 1-Digit Numbers (Models)	Students will use models to multiply a 2-digit number by a 1-digit number.
4	4.4b	Operations	Multiply with One-Digit Numbers	Partial Products (2- by 1-Digit Numbers)	Students will use partial products to multiply a 2-digit number by a 1-digit number.
4	4.4b	Operations	Multiply with One-Digit Numbers	Multiply 2- by 1-Digit Numbers	Students will multiply a 2-digit number by a 1-digit number.
4	4.4b	Operations	Multiply with One-Digit Numbers	Multiply 3- by 1-Digit Numbers	Students will multiply a 3-digit number by a 1-digit number.
4	4.4b	Operations	Multiply with One-Digit Numbers	Multiply 4- by 1-Digit Numbers	Students will multiply a 4-digit number by a 1-digit number.
4	4.4b	Operations	Multiply with Two-Digit Numbers	Multiply 2-Digit Multiples of 10	Students will find the product of multiplying two 2-digit multiples of ten.
4	4.4b	Operations	Multiply with Two-Digit Numbers	Multiply 2-Digit Numbers (Area Models)	Students will use area models and partial products to multiply two 2-digit numbers.
4	4.4b	Operations	Multiply with Two-Digit Numbers	Partial Products (2- by 2-Digit Numbers)	Students will use partial products to solve the multiplication of two 2-digit numbers.
4	4.4b	Operations	Multiply with Two-Digit Numbers	Multiply 2-Digit Numbers	Students will demonstrate understanding of two-digit multiplication.
4	4.4b	Operations	Multiplication as Comparison	Interpret Multiplication Equations	Students will interpret multiplication equations as comparisons.
4	4.4b 4.4d	Operations	Multiplication as Comparison	Comparison Word Problems (Models)	Students will use models and equations to solve comparison word problems.
4	4.4b 4.4d	Operations	Multiplication as Comparison	Comparison Word Problems with Equations	Students will use equations to solve comparison word problems.
4	4.4c	Operations	Understanding Division	Division with Extended Facts	Students will solve division problems with extended facts.
4	4.4c	Operations	Understanding Division	Two-Digit Dividends (Models)	Students will divide 2-digit numbers by 1-digit numbers using models.
4	4.4c	Operations	Understanding Division	Two-Digit Dividends (Remainders)	Students will divide 2-digit numbers by 1-digit numbers with remainders using models.

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Grade	VA Standard	Strand	Module Title	Lesson Title	Learning Goal
4	4.4c	Operations	Division Based on Place-Value Strategies	Four-Digit Dividends (Area Models)	Students will divide up to 4-digit dividends by 1-digit divisors and find quotients without remainders using area models.
4	4.4c	Operations	Division Based on Place-Value Strategies	Two-Digit Dividends (Partial Quotients)	Students will divide 2-digit numbers by 1-digit numbers using partial quotients.
4	4.4c	Operations	Division Based on Place-Value Strategies	Three-Digit Dividends (Partial Quotients)	Students will divide 3-digit numbers by 1-digit numbers using partial quotients.
4	4.4c	Operations	Division Based on Place-Value Strategies	Four-Digit Dividends (Partial Quotients)	Students will divide up to 4-digit dividends by 1-digit divisors using partial quotients.
4	4.4c	Operations	Division by One-Digit Numbers	Two-Digit Dividends (1-Digit Quotient)	Students will find one-digit quotients with and without remainders when dividing two-digit numbers by one-digit numbers.
4	4.4c	Operations	Division by One-Digit Numbers	Two-Digit Dividends (2-Digit Quotient)	Students will find two-digit quotients with and without remainders when dividing two-digit numbers by one-digit numbers.
4	4.4c	Operations	Division by One-Digit Numbers	Two-Digit Dividends	Students will find one- and two-digit quotients with and without remainders when dividing two-digit numbers by one-digit numbers.
4	4.4c	Operations	Division by One-Digit Numbers	Three-Digit Dividends	Students will find quotients with and without remainders when dividing three-digit numbers by one-digit numbers.
4	4.4c	Operations	Division by One-Digit Numbers	3- by 1-Digit Division Involving Zeros	Students will demonstrate understanding of zeros when dividing three-digit numbers by one-digit numbers.
4	4.4c	Operations	Division by One-Digit Numbers	Four-Digit Dividends	Students will divide four-digit numbers by one-digit numbers resulting in quotients with and without remainders
4	4.4c	Operations	Division by One-Digit Numbers	4- by 1-Digit Division Involving Zeros	Students will demonstrate understanding of zeros when dividing four-digit numbers by one-digit numbers, with and without remainders.
4	4.4c	Algebraic Thinking	Muti-Step Word Problems within 10,000	Interpret Remainders in Word Problems	Students will interpret the remainder to solve division word problems.
4	4.4d	Algebraic Thinking	Muti-Step Word Problems within 10,000	Reasonableness in Multi-Step Problems	Students will compare an estimated answer to the solution to examine the reasonableness of solutions to multi-step word problems.
4	4.4d	Algebraic Thinking	Muti-Step Word Problems within 10,000	Multi-Step Word Problems	Students will use equations to solve multi-step word problems.
4	4.5a	Number & Quantity	Factors and Multiples	Use Models to Understand Factors	Students will use models to identify factors and factor pairs.
4	4.5a	Number & Quantity	Factors and Multiples	Identify and List Factors	Students will identify the factors of whole numbers 1-100 using factor pairs.
4	4.5a	Number & Quantity	Factors and Multiples	Prime and Composite Numbers	Students will identify numbers as prime or composite.

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Grade	VA Standard	Strand	Module Title	Lesson Title	Learning Goal
4	4.5a	Number & Quantity	Factors and Multiples	Identify Multiples	Students will identify multiples of numbers up to 100.
4	4.5b	Number & Quantity	Fractions and Decimals	Add Fractions in 10ths and 100ths	Students will convert tenths to hundredths to add fractions with denominators of 10 and 100.
4	4.5b 4.5c	Operations	Add & Subtract Like-Denominator Fractions	Build Fractions from Unit Fractions	Students will use models to add unit fractions with like denominators and identify the sum.
4	4.5b 4.5c	Operations	Add & Subtract Like-Denominator Fractions	Decompose Fractions into Sums	Students will decompose fractions in more than one way by writing them as sums of fractions with the same denominator.
4	4.5b 4.5c	Operations	Add & Subtract Like-Denominator Fractions	Add Like Fractions (Models)	Students will use models to add fractions with like denominators.
4	4.5b 4.5c	Operations	Add & Subtract Like-Denominator Fractions	Subtract Like Fractions (Models)	Students will use models to subtract fractions with like denominators.
4	4.5b 4.5c	Operations	Add & Subtract Like-Denominator Fractions	Add Like Fractions	Students will add fractions with like denominators.
4	4.5b 4.5c	Operations	Add & Subtract Like-Denominator Fractions	Add Like Fractions and Regroup Sums	Students will add fractions with like denominators to find sums that require regrouping.
4	4.5b 4.5c	Operations	Add & Subtract Like-Denominator Fractions	Subtract Like Fractions	Students will use a computational algorithm to solve problems involving subtraction of fractions with like denominators.
4	4.5b 4.5c	Operations	Add & Subtract Like-Denominator Fractions	Add and Subtract Like Fractions	Students will add and subtract fractions with like denominators.
4	4.5b 4.5c	Operations	Add & Subtract Mixed Numbers	Add Mixed Numbers	Students will add mixed numbers with like denominators.
4	4.5b 4.5c	Operations	Add & Subtract Mixed Numbers	Add Mixed Numbers (Regroup)	Students will identify and regroup the sum for addition problems involving mixed numbers with like denominators.
4	4.5b 4.5c	Operations	Add & Subtract Mixed Numbers	Subtract Mixed Numbers	Students will subtract mixed numbers with like denominators without regrouping.
4	4.5b 4.5c	Operations	Add & Subtract Mixed Numbers	Subtract (Rename Difference Less Than 1)	Students will use models, rename the subtrahend or subtrahend and minuend, and identify the difference to subtract mixed numbers with like denominators resulting in differences less than 1.
4	4.5b 4.5c	Operations	Add & Subtract Mixed Numbers	Subtract (Model and Rename Difference)	Students will use models, rename the subtrahend or subtrahend and minuend, and identify and rename the difference to subtract mixed numbers with like denominators.
4	4.5b 4.5c	Operations	Add & Subtract Mixed Numbers	Subtract (Rename Difference)	Students will rename the subtrahend or subtrahend and minuend, and identify and rename the difference to subtract mixed numbers with like denominators.
4	4.5b 4.5c	Operations	Add & Subtract Mixed Numbers	Subtract with and without Regrouping	Students will subtract mixed numbers with like denominators with and without regrouping.

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Grade	VA Standard	Strand	Module Title	Lesson Title	Learning Goal
4	4.5c	Algebraic Thinking	Introduction to Word Problems with Fractions (Module 21)	Add & Subtract in Fraction Word Problems	Students will use models and/or equations to solve word problems involving addition and subtraction of fractions with like denominators.
4	4.8c	Measurement	Conversions	Customary Units of Length	Students will convert with customary units of length.
4	4.8c	Measurement	Conversions	Customary Units of Weight	Students will convert with customary units of weight.
4	4.8c	Measurement	Conversions	Customary Units of Liquid Volume	Students will convert customary units of liquid volume.
4	4.8c 4.8d	Measurement	Distance Word Problems	Conversions (Distance)	Students will convert units of distance to solve word problems.
4	4.8c 4.8d	Measurement	Distance Word Problems	Fraction Conversions (Distance)	Students will convert fractional units to solve word problems involving distance.
4	4.8c 4.8d	Measurement	Mass and Weight Word Problems	Conversions (Mass & Weight)	Students will convert units of mass or weight to solve word problems.
4	4.8c 4.8d	Measurement	Mass and Weight Word Problems	Fraction Conversions (Mass & Weight)	Students will convert fractional units to solve word problems involving mass or weight.
4	4.8c 4.8d	Measurement	Liquid Volume Word Problems	Liquid Volume Fraction Conversions	Students will convert fractional units to solve word problems involving liquid volume.
4	4.8d	Measurement	Distance Word Problems	Whole Numbers (Distance)	Students will use diagrams to solve word problems involving distance.
4	4.8d	Measurement	Mass and Weight Word Problems	Whole Numbers (Mass & Weight)	Students will use bar diagrams to solve word problems involving mass or weight.
4	4.8d	Measurement	Liquid Volume Word Problems	Liquid Volume Addition and Subtraction	Students will use diagrams with measurement scales to solve addition and subtraction word problems involving customary units for liquid volume.
4	4.8d	Measurement	Liquid Volume Word Problems	Liquid Volume Multiplication and Division	Students will use diagrams with measurement scales to solve multiplication and division word problems involving customary units for liquid volume.
4	4.11	Geometry	Geometric Objects	Geometric Objects	Students will identify geometric objects and their descriptions.
4	4.11	Geometry	Categorize Shapes	Classify Shapes by Angles	Students will classify 2-dimensional shapes based on angles.
4	4.11	Geometry	Categorize Shapes	Parallel & Perpendicular Lines in Shapes	Students will describe and identify parallel and perpendicular line segments in shapes.
4	4.11	Geometry	Categorize Shapes	Use Lines to Classify Shapes	Students will classify shapes based on the presence or absence of parallel or perpendicular line segments.

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Grade	VA Standard	Strand	Module Title	Lesson Title	Learning Goal
4	4.15	Algebraic Thinking	Repeating Patterns	Identify the Core of a Pattern	Students will identify the core of a repeating pattern to demonstrate understanding of patterns.
4	4.15	Algebraic Thinking	Repeating Patterns	Extend Shape Patterns	Students will extend repeating shape patterns to demonstrate understanding of patterns.
4	4.15	Algebraic Thinking	Repeating Patterns	Extend Number Patterns	Students will extend repeating number patterns to demonstrate understanding of patterns.
4	4.15	Algebraic Thinking	Repeating Patterns	Identify Terms in a Sequence	Students will identify terms in a sequence to demonstrate understanding of repeating patterns.
4	4.15	Algebraic Thinking	Growing Patterns	Hidden Features	Students will identify features of a pattern not explicit in the rule.
4	4.15	Algebraic Thinking	Growing Patterns	Shape Pattern Rules	Students will extend growing shape patterns to demonstrate understanding of patterns.
4	4.15	Algebraic Thinking	Growing Patterns	Number Pattern Rules	Students will extend growing number patterns to demonstrate understanding of patterns.
4	4.15	Algebraic Thinking	Growing Patterns	Shape and Number Patterns	Students will identify the rule for growing shape or number patterns to demonstrate understanding of patterns.
5	5.1	Number & Quantity	Round Decimal Numbers	Round Decimals to Nearest Whole < 1	Students will round decimal numbers less than one to the nearest whole number.
5	5.1	Number & Quantity	Round Decimal Numbers	Round Decimals to Nearest Whole > 1	Students will round decimal numbers greater than one to the nearest whole number.
5	5.1	Number & Quantity	Round Decimal Numbers	Round Decimals to Nearest Tenth < 1	Students will round decimal numbers less than one to the nearest tenth.
5	5.1	Number & Quantity	Round Decimal Numbers	Round Decimals to Nearest Tenth > 1	Students will round decimal numbers greater than one to the nearest tenth.
5	5.1	Number & Quantity	Round Decimal Numbers	Round Decimals to Nearest Hundredth	Students will round decimal numbers to the nearest hundredth.
5	5.1	Number & Quantity	Round Decimal Numbers	Round Decimals to Any Place	Students will round decimal numbers to any place.
5	5.4	Number & Quantity	Fractions as Quotients	Quotient Fractions (Word Problems)	Students will solve word problems involving division of whole numbers resulting in answers in the form of fractions or mixed numbers by using equations.
5	5.4	Operations	Multiplication with Multi-Digit Numbers	Multiply Multi-Digit by 2-Digit Numbers	Students will use the standard algorithm to multiply a two-digit number and a multi-digit number.
5	5.4	Operations	Multiplication with Multi-Digit Numbers	Multiply 3-Digit by 3-Digit Numbers	Students will use the standard algorithm to multiply two three-digit numbers.
5	5.4	Operations	Multiplication with Multi-Digit Numbers	Multiply Multi-Digit Numbers	Students will use the standard algorithm to multiply two multi-digit numbers.
5	5.4	Operations	Division by 2-Digit Divisors	Divide by Multiples of 10	Students will divide by multiples of 10.
5	5.4	Operations	Division by 2-Digit Divisors	2- and 3-Digit Dividends	Students will divide 2- and 3- digit dividends by 2-digit divisors.

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Grade	VA Standard	Strand	Module Title	Lesson Title	Learning Goal
5	5.4	Operations	Division by 2-Digit Divisors	3- and 4-Digit Dividends	Students will divide 3- and 4- digit dividends by 2-digit divisors .
5	5.4	Operations	Multi-Digit Division Using Extended Facts	Divide by 1-Digit (Partial Quotients)	Students will divide multi-digit numbers by 1-digit divisors using partial quotients.
5	5.4	Operations	Multi-Digit Division Using Extended Facts	Divide by 2-Digits (Area Models)	Students will divide multi-digit numbers by 2-digit divisors using area models.
5	5.4	Operations	Multi-Digit Division Using Extended Facts	Divide by 2-Digits (Partial Quotients)	Students will divide multi-digit numbers by 2-digit divisors using partial quotients.
5	5.7	Operations	The Order of Operations	Parentheses	Students will evaluate expressions with parentheses.
5	5.7	Operations	The Order of Operations	Understand Order of Operations	Students will identify the steps for the order of operations in expressions.
5	5.7	Operations	The Order of Operations	Apply Order of Operations	Students will apply the order of operations to simplifying expressions.
5	5.7	Operations	The Order of Operations	Interpret the Magnitude of Expressions	Students will interpret numerical expressions without performing specific calculations.
5	5.2a	Number & Quantity	Decimal Place Value	Identify Numbers < 1 in Tenths	Students will identify standard and word form for decimal numbers less than one in tenths.
5	5.2a	Number & Quantity	Decimal Place Value	Identify Numbers > 1 in Tenths	Students will identify standard and word form for decimal numbers greater than one in tenths.
5	5.2a	Number & Quantity	Decimal Place Value	Identify Numbers in Hundredths	Students will identify standard and word form for decimal numbers in hundredths.
5	5.2a	Number & Quantity	Decimal Place Value	Identify Numbers in Thousandths	Students will identify standard and word form for decimal numbers in thousandths.
5	5.2b	Number & Quantity	Decimal Place Value	Expanded Form of Decimal Numbers	Students will identify decimal numbers in expanded form.
5	5.2b	Number & Quantity	Compare and Order Decimal Numbers	Compare Decimal Numbers in Tenths	Students will use the symbols < and > to compare two decimal numbers between 0 and 1 written in tenths.
5	5.2b	Number & Quantity	Compare and Order Decimal Numbers	Compare Decimal Numbers (100ths)	Students will use the symbols < and > to compare two decimal numbers between 0 and 1 written in hundredths.
5	5.2b	Number & Quantity	Compare and Order Decimal Numbers	Compare Decimal Numbers (1,000ths)	Students will use the symbols < and > to compare two decimal numbers between 0 and 1 written in thousandths.
5	5.2b	Number & Quantity	Compare and Order Decimal Numbers	Equivalent Decimal Numbers	Students will identify equivalent decimal numbers.
5	5.2b	Number & Quantity	Compare and Order Decimal Numbers	Compare Decimal Numbers	Students will identify the correct comparison of two decimal numbers written in tenths, hundredths, or thousandths using the symbols <, =, and >.
5	5.2b	Number & Quantity	Compare and Order Decimal Numbers	Order Decimal Numbers	Students will identify the correct order of three to five decimal numbers from least to greatest.

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Grade	VA Standard	Strand	Module Title	Lesson Title	Learning Goal
5	5.5a 5.5b	Operations	Multiplication of Decimal Numbers	Multiply Decimals by Whole Numbers-Model	Students will use models to multiply decimals and whole numbers.
5	5.5a 5.5b	Operations	Multiplication of Decimal Numbers	Multiply Decimals by Whole Numbers	Students will multiply decimals and whole numbers.
5	5.5a 5.5b	Operations	Multiplication of Decimal Numbers	Multiply Two Decimal Numbers-Model	Students will use models to multiply two decimals.
5	5.5a 5.5b	Operations	Multiplication of Decimal Numbers	Multiply Two Decimal Numbers	Students will multiply two decimal numbers.
5	5.5a 5.5b	Operations	Division of Decimal Numbers	Divide Decimals by Whole Numbers-Model	Students will use models to divide decimal numbers by whole numbers.
5	5.5a 5.5b	Operations	Division of Decimal Numbers	Divide Decimals by Whole Numbers	Students will divide decimal numbers by whole numbers.
5	5.5a 5.5b	Operations	Division of Decimal Numbers	Divide Whole Numbers by Decimals-Model	Students will use models to divide whole numbers by decimal numbers.
5	5.5a 5.5b	Operations	Division of Decimal Numbers	Divide Whole Numbers by Decimals	Students will divide whole numbers by decimals.
5	5.5a 5.5b	Operations	Division of Decimal Numbers	Divide Decimals-Model	Students will use models to divide two decimal numbers.
5	5.5a 5.5b	Operations	Division of Decimal Numbers	Divide Decimals	Students will divide two decimal numbers.
5	5.5b	Operations	Addition of Decimal Numbers	Model Adding Decimals	Students will use models to add two decimal numbers.
5	5.5b	Operations	Addition of Decimal Numbers	Add Two Decimal Numbers	Students will add two decimals.
5	5.5b	Operations	Addition of Decimal Numbers	Align Decimal Points when Adding	Students will align the decimal points to add two decimals with a different number of decimal places.
5	5.5b	Operations	Addition of Decimal Numbers	Add Decimals (Different Decimal Places)	Students will align the decimal points to add two decimal numbers with a different number of decimal places.
5	5.5b	Operations	Subtraction of Decimal Numbers	Model Subtracting Decimal Numbers	Students will use grids to model the subtraction of two decimal numbers.
5	5.5b	Operations	Subtraction of Decimal Numbers	Subtract Two Decimal Numbers	Students will subtract two decimal numbers with the same number of decimal places.
5	5.5b	Operations	Subtraction of Decimal Numbers	Align Decimal Numbers (Less than One)	Students will subtract two decimal numbers less than one with different numbers of decimal places.
5	5.5b	Operations	Subtraction of Decimal Numbers	Align Decimal Numbers (Greater than One)	Students will subtract two decimal numbers greater than one with different numbers of decimal places.
5	5.6a	Operations	Add & Subtract Unlike-Denominator Fractions	Add Fractions (with/without Models)	Students will only rename one fraction to add fractions with unlike denominators.

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Grade	VA Standard	Strand	Module Title	Lesson Title	Learning Goal
5	5.6a	Operations	Add & Subtract Unlike-Denominator Fractions	Subtract Fractions (with/without Models)	Students will only rename one fraction to subtract fractions with unlike denominators.
5	5.6a	Operations	Add & Subtract Unlike-Denominator Fractions	Add Fractions-Rename Both (Models)	Students will use models and rename both fractions to add fractions with unlike denominators.
5	5.6a	Operations	Add & Subtract Unlike-Denominator Fractions	Subtract Fractions (Model and Rename)	Students will use models to rename both fractions to subtract fractions with unlike denominators.
5	5.6a	Operations	Add & Subtract Unlike-Denominator Fractions	Add Fractions (Rename Both)	Students will rename both fractions to add fractions with unlike denominators.
5	5.6a	Operations	Add & Subtract Unlike-Denominator Fractions	Subtract Fractions (Rename Both)	Students will rename both fractions to subtract fractions with unlike denominators.
5	5.6a	Operations	Add & Subtract Unlike-Denominator Fractions	Add and Subtract (Unlike Denominators)	Students will add and subtract fractions with unlike denominators.
5	5.6a	Operations	Mixed-Number Addition and Subtraction	Add Unlike Mixed Numbers	Students will add mixed numbers with unlike denominators.
5	5.6a	Operations	Mixed-Number Addition and Subtraction	Add Unlike Mixed Numbers (Regroup)	Students will add mixed numbers with unlike denominators resulting in sums requiring regrouping.
5	5.6a	Operations	Mixed-Number Addition and Subtraction	Subtract Unlike Mixed Numbers	Students will subtract mixed numbers with unlike denominators.
5	5.6a	Operations	Mixed-Number Addition and Subtraction	Subtract Mixed Numbers (Regroup)	Students will subtract mixed numbers, with unlike denominators, which require regrouping.
5	5.6a	Algebraic Thinking	Word Problems with Fractions	Add & Subtract Fractions (Model)	Students will use visual models to represent the problem and determine the answer to solve word problems involving the addition and subtraction of fractions.
5	5.6a	Algebraic Thinking	Word Problems with Fractions	Add & Subtract Fractions (Equations)	Students will represent the problem using an equation and performing the calculation to solve a word problem involving the addition and subtraction of fractions.
5	5.6a	Algebraic Thinking	Word Problems with Fractions	Estimate & Check (Benchmark Fractions)	Students will use benchmark fractions to estimate the solution to examine the reasonableness of a solution to addition and subtraction of fractions word problems.
5	5.6b	Operations	Multiplication of Fractions	Multiply Whole Number by Fraction-Models	Students will use models to multiply a whole number by a fraction.
5	5.6b	Operations	Multiplication of Fractions	Whole Number by Fraction Multiplication	Students will multiply a whole number by a fraction.
5	5.8a	Measurement	Volume	Volume Using Unit Cubes	Students will calculate volume using unit cubes.
5	5.8a	Measurement	Volume	Volume Using Multiplication	Students will count unit cubes and multiply to find the volume of rectangular prisms.

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Grade	VA Standard	Strand	Module Title	Lesson Title	Learning Goal
5	5.8a	Measurement	Volume	The $l \times w \times h$ Volume Formula	Students will apply the formula Volume = length x width x height to determine the volume of rectangular prisms.
5	5.8a	Measurement	Volume	The $B \times h$ Volume Formula	Students will apply the formula Volume = Area of the Base x height to determine the volume of rectangular prisms.
5	5.8a	Measurement	Volume	Solve Volume Problems	Students will solve real-world word problems involving the volume of rectangular prisms.
5	5.8a	Measurement	Volume	Recognize Volume as Additive	Students will determine the volume of two solid, non-overlapping, right rectangular prisms.
5	5.9a 5.9b	Measurement	Converting Customary and Metric Units	Length Conversions	Students will convert with units of length.
5	5.9a 5.9b	Measurement	Converting Customary and Metric Units	Length Conversions Word Problems	Students will convert units of length to solve word problems.
5	5.9a 5.9b	Measurement	Converting Customary and Metric Units	Weight and Mass Conversions	Students will convert with units of mass or weight.
5	5.9a 5.9b	Measurement	Converting Customary and Metric Units	Mass or Weight Conversions Word Problems	Students will convert units of mass or weight to solve word problems.
5	5.9a 5.9b	Measurement	Converting Customary and Metric Units	Liquid Volume Conversions	Students will convert with units of liquid volume.
5	5.9a 5.9b	Measurement	Converting Customary and Metric Units	Liquid Volume Conversions Word Problems	Students will convert units of liquid volume to solve word problems.
5	5.16a 5.16b	Statistical Analysis	Line Plots	Line Plots with Operations (Halves)	Students will create a line plot with a scale in halves from measurement data and solve problems based on line plot data.
5	5.16a 5.16b	Statistical Analysis	Line Plots	Line Plots with Operations (Quarters)	Students will create a line plot with a scale in quarters from measurement data and solve problems based on line plot data.
5	5.16a 5.16b	Statistical Analysis	Line Plots	Line Plots with Operations (Eighths)	Students will create a line plot with a scale in eighths from measurement data and solve problems based on line plot data.
5	5.18	Algebraic Thinking	Pairs of Patterns	Create and Analyze the Pattern	Students will create two numerical patterns from two given rules and identify the relationship between the corresponding terms created from the two patterns to demonstrate their understanding of patterns.
5	5.19c	Operations	The Order of Operations	Write Numerical Expressions	Students will construct numerical expressions for verbal statements.

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Grade	VA Standard	Strand	Module Title	Lesson Title	Learning Goal
6	6.4	Number & Quantity	Exponents	Square of a Number	Students will identify squares of whole numbers.
6	6.4	Number & Quantity	Exponents	Perfect Squares	Students will identify perfect squares.
6	6.4	Number & Quantity	Exponents	Introducing Exponential Form	Students will demonstrate understanding of the meaning of the expression b^p where b and p are whole numbers.
6	6.4	Number & Quantity	Exponents	Powers of Ten	Students will evaluate whole-number exponent expression of the form 10^p where p is a whole number.
6	6.4	Number & Quantity	Exponents	Exponent Expressions (Whole-Number Base)	Students will evaluate expressions in the form b^p where b is a whole number.
6	6.4	Number & Quantity	Exponents	Special Exponents	Students will demonstrate knowledge of special exponents.
6	6.4	Number & Quantity	Exponents	Exponents in Numerical Expressions	Students will evaluate expressions in the form $a + b^p$ and ab^p where p is a whole-number.
6	6.2a	Number & Quantity	Percentages	Introduction to Percentages	Students will write a percentage as a fraction with a denominator of 100 or as a decimal number.
6	6.2a	Number & Quantity	Percentages	Write Fractions as Percentages	Students will demonstrate an understanding of fractions and percentages by writing fractions less than one as percentages and identifying the correct percentage, given a fraction.
6	6.2a	Number & Quantity	Percentages	Write Decimal Numbers as Percentages	Students will write a decimal number less than one as a percentage.
6	6.2a	Number & Quantity	Percentages	Percentages Greater than 100% (Part 1)	Students will change a percentage greater than or equal to 100% to a mixed number or decimal number.
6	6.2a	Number & Quantity	Percentages	Percentages Greater than 100% (Part 2)	Students will change a mixed number or decimal number greater than or equal to one to a percentage.
6	6.2a	Algebraic Thinking	Rational Numbers on a Number Line	Graph Different Forms (Rational Numbers)	Students will place points on a number line to represent rational numbers (fractions and decimals) and identify when points are correctly placed to demonstrate their understanding of a number line.
6	6.2a	Algebraic Thinking	Rational Numbers on a Number Line	Identify Points (Rational Numbers)	Students will identify rational numbers represented with points on a number line to demonstrate their understanding of a number line.
6	6.2a	Algebraic Thinking	Rational Numbers on a Number Line	Same Number Line (Rational Numbers)	Students will graph a set containing different forms of rational numbers on a single number line to demonstrate their understanding of a number line.
6	6.2a	Algebraic Thinking	Ratios and Percentages	Relate Ratios and Percentages	Students will understand the relationship between ratios and percentages.

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Grade	VA Standard	Strand	Module Title	Lesson Title	Learning Goal
6	6.2a	Algebraic Thinking	Ratios and Percentages	Ratios with Unknown Parts	Students will solve percent problems where the part is unknown.
6	6.2a	Algebraic Thinking	Ratios and Percentages	Ratios with Unknown Percentages	Students will solve percent problems where the percentage is unknown.
6	6.2a	Algebraic Thinking	Ratios and Percentages	Ratios with Unknown Wholes	Students will solve percent problems where the whole is unknown.
6	6.2a	Algebraic Thinking	Ratios and Percentages	Ratios in Real-World Problems	Students will solve real-world percent/ratio problems.
6	6.3a	Number & Quantity	Use Integers	Integers and Temperature	Students will interpret integers to represent temperatures in degrees Celsius and discuss the meaning of 0 when speaking about temperature.
6	6.3a	Number & Quantity	Use Integers	Integers and Elevation	Students will describe elevation as above or below sea level using integers.
6	6.3a	Number & Quantity	Use Integers	Integers and Money	Students will use integers to represent real-world financial situations.
6	6.3a	Number & Quantity	Use Integers	Integers and Real-World Scenarios	Students will use positive and negative integers to represent real-world scenarios.
6	6.3a	Algebraic Thinking	Rational Numbers on a Number Line	Integers on a Number Line	Students will place points on a number line to represent integers and demonstrate their understanding of the number line.
6	6.3a	Algebraic Thinking	Rational Numbers on a Number Line	Graphs of Integers	Students will identify integers represented with points on a number line to demonstrate their understanding of a number line.
6	6.3b	Number & Quantity	Compare and Order Integers	Compare Integers Using a Number Line	Students will compare integers using a number line.
6	6.3b	Number & Quantity	Compare and Order Integers	Integer Inequalities on a Number Line	Students will translate a statement of inequality involving integers as a statement about the relative position of the integers on a number line.
6	6.3b	Number & Quantity	Compare and Order Integers	Compare Rational Numbers in Context	Students will write and interpret mathematical statements comparing integers in real-world contexts.
6	6.3c	Number & Quantity	Integers, Absolute Value, and Opposites	Opposites on a Number Line	Students will determine opposites using a number line by identifying equal distances from 0.
6	6.3c	Number & Quantity	Integers, Absolute Value, and Opposites	Opposites in Real-World Scenarios	Students will demonstrate an understanding of opposites in real-world scenarios.
6	6.3c	Number & Quantity	Integers, Absolute Value, and Opposites	Introduction to Absolute Value	Students will represent absolute value.
6	6.3c	Number & Quantity	Integers, Absolute Value, and Opposites	Distance from Zero	Students will find the distance a number is from 0 using a number line.

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Grade	VA Standard	Strand	Module Title	Lesson Title	Learning Goal
6	6.3c	Number & Quantity	Integers, Absolute Value, and Opposites	Absolute Value	Students will find the absolute value of any rational number.
6	6.3c	Number & Quantity	Integers, Absolute Value, and Opposites	Compare Absolute Values	Students will compare absolute values.
6	6.3c	Number & Quantity	Integers, Absolute Value, and Opposites	Absolute Value and Real-World Scenarios	Students will interpret real-world scenarios in terms of absolute value.
6	6.5a 6.5b	Operations	Division of Positive Fractions	Divide Fractions and Whole Numbers-Model	Students will model the division of positive fractions by whole numbers and whole numbers by positive fractions.
6	6.5a 6.5b	Operations	Division of Positive Fractions	Divide Fractions-Model	Students will represent the division of positive fractions.
6	6.5a 6.5b	Operations	Division of Positive Fractions	Find Reciprocals	Students will find the reciprocal of positive fractions and whole numbers.
6	6.5a 6.5b	Operations	Division of Positive Fractions	Divide Fractions	Students will divide two positive fractions.
6	6.5a 6.5b	Operations	Division of Positive Fractions	Divide Fractions and Whole Numbers	Students will divide positive fractions and whole numbers.
6	6.5c	Operations	Operations with Multi-Digit Decimal Numbers	Add Multi-Digit Decimal Numbers	Students will add multi-digit positive decimal numbers.
6	6.5c	Operations	Operations with Multi-Digit Decimal Numbers	Subtract Multi-Digit Decimal Numbers	Students will subtract multi-digit positive decimal numbers.
6	6.5c	Operations	Operations with Multi-Digit Decimal Numbers	Multiply Multi-Digit Decimal Numbers	Students will multiply two multi-digit positive decimal numbers by using the standard algorithm.
6	6.5c	Operations	Operations with Multi-Digit Decimal Numbers	Divide by Multi-Digit Numbers	Students will fluently divide multi-digit numbers.
6	6.5c	Operations	Operations with Multi-Digit Decimal Numbers	Divide Decimal Numbers by Whole Numbers	Students will divide multi-digit decimal numbers by whole numbers.
6	6.5c	Operations	Operations with Multi-Digit Decimal Numbers	Divide by Decimal Numbers	Students will divide multi-digit decimal numbers by decimal numbers.
6	6.6a 6.6b	Operations	Properties of Operations	Use Properties to Complete Equations	Students will use the Commutative and Associative Properties to find the number needed to complete an equation.
6	6.6a 6.6b	Operations	Properties of Operations	Evaluate Using the Distributive Property	Students will use the Distributive Property to evaluate numeric expressions involving whole numbers.
6	6.6a 6.6b	Operations	Properties of Operations	Distributive Property in Equations	Students will find a missing number by using the Distributive Property to complete equations involving addition and multiplication.
6	6.6a 6.6b	Operations	Properties of Operations	Use the Distributive Property to Factor	Students will use the Distributive Property to show a sum of two whole numbers (from 1 to 100) in factored form.

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Grade	VA Standard	Strand	Module Title	Lesson Title	Learning Goal
6	6.6a 6.6b	Operations	Properties of Operations	Distributive Property-Rational Number	Students will evaluate numerical expressions involving non-negative rational numbers by using the Distributive Property.
6	6.6b 6.6c	Algebraic Thinking	Evaluate Whole-Number Expressions	Need for Order of Operations	Students will evaluate algebraic expressions in several ways to demonstrate understanding of the need for a fixed order of operations.
6	6.6b 6.6c	Algebraic Thinking	Evaluate Whole-Number Expressions	Order of Operations for Basic Operations	Students will use substitution and the order of operations to evaluate algebraic expressions containing addition/subtraction and multiplication/division.
6	6.6b 6.6c	Algebraic Thinking	Evaluate Whole-Number Expressions	Order of Operations for Exponents	Students will use substitution and the order of operations to evaluate algebraic expressions containing addition/subtractions, multiplication/division, and exponents.
6	6.6b 6.6c	Algebraic Thinking	Evaluate Whole-Number Expressions	Order of Operations for Grouping Symbols	Students will use substitution and the order of operations to evaluate algebraic expressions containing grouping symbols.
6	6.6b 6.6c	Algebraic Thinking	Evaluate Whole-Number Expressions	Order of Operations	Students will use substitution and the order of operations to evaluate algebraic expressions.
6	6.6b 6.6c	Algebraic Thinking	Evaluate Whole-Number Expressions	Evaluate Formulas	Students will use substitution and the order of operations to evaluate real-world formulas.
6	6.6c	Operations	Properties of Operations	Use Properties to Evaluate Expressions	Students will use the Commutative and Associative Properties to simplify numeric expressions.
6	6.7c	Measurement	Area of Triangles	Area Formula for Right Triangles	Students will derive the formula for the area of a right triangle using decomposition.
6	6.7c	Measurement	Area of Triangles	Solve Problems-Areas of Right Triangles	Students will solve mathematical and word problems involving the area of right triangles.
6	6.7c	Measurement	Area of Triangles	Find the Area of Non-Right Triangles	Students will solve real-world problems involving the area of non-right triangles.
6	6.7c	Measurement	Area of Special Quadrilaterals and Polygons	Area Formula for Parallelograms	Students will describe the relationship between the area of a parallelogram and the area of a rectangle.
6	6.7c	Measurement	Area of Special Quadrilaterals and Polygons	Find the Area of Parallelograms	Students will solve problems involving the area of parallelograms.
6	6.7c	Measurement	Area of Special Quadrilaterals and Polygons	Area Formula for Trapezoids	Students will identify the relationship between the areas of trapezoids, triangles, and rectangles.

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Grade	VA Standard	Strand	Module Title	Lesson Title	Learning Goal
6	6.7c	Measurement	Area of Special Quadrilaterals and Polygons	Decompose into Triangles and Rectangles	Students will determine that a polygon is composed of triangles and rectangles.
6	6.7c	Measurement	Area of Special Quadrilaterals and Polygons	Calculate the Area of Polygons	Students will solve for the area of polygons.
6	6.7c	Measurement	Area of Special Quadrilaterals and Polygons	Solve Problems-Area of Polygons	Students will solve real-world problems involving areas of polygons.
6	6.8a 6.8b	Geometry	Coordinate Plane (all quadrants)	Distance Between Points	Students will find the distance between two points having the same first or same second coordinates.
6	6.8a 6.8b	Geometry	Coordinate Plane (all quadrants)	Reflected Points	Students will determine whether two ordered pairs are related by reflection across one or both axes.
6	6.8a 6.8b	Geometry	Coordinate Plane (all quadrants)	Solve Problems Using Coordinate Planes	Students will use lengths to solve real-world and mathematical problems involving points, segments, and polygons.
6	6.8b	Geometry	Coordinate Plane (all quadrants)	Identify Points in the Coordinate Plane	Students will identify the coordinates of points graphed in all quadrants of the plane.
6	6.8b	Geometry	Coordinate Plane (all quadrants)	Graph in the Coordinate Plane	Students will graph a point given its coordinates.
6	6.10	Statistical Analysis	Use Statistics	Organize Data in Tables	Students will organize data in a table given raw data.
6	6.10b	Statistical Analysis	Use Statistics	Statistical Questions	Students will recognize and identify statistical questions.
6	6.10c	Statistical Analysis	Use Statistics	Create Line Plots and Dot Plots	Students will graph data on a single line plot or dot plot by setting up a number line and scale and placing various data points.
6	6.10c	Statistical Analysis	Summarize Numerical Data Sets	Describe a Data Distribution	Students will describe a data distribution by identifying the attribute being measured, its units of measurement, and how many observations were made.
6	6.11a	Statistical Analysis	Mean, Median, Mode, Range	Define and Find the Mean	Students will identify the mean of a set of values.
6	6.11a	Statistical Analysis	Mean, Median, Mode, Range	Given Mean, Find Unknown Data Points	Students will find an unknown data point in a set of values given the mean of those values.
6	6.11a	Statistical Analysis	Mean, Median, Mode, Range	Define and Find the Median and Mode	Students will identify the median and mode of a set of values.
6	6.11a	Statistical Analysis	Central Tendency, Range, and Data Displays	Mean from Charts and Graphs	Students will interpret real-world charts and graphs and find the mean.

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Grade	VA Standard	Strand	Module Title	Lesson Title	Learning Goal
6	6.11a	Statistical Analysis	Central Tendency, Range, and Data Displays	Median and Mode from Charts and Graphs	Students will find the median and the mode of real-world data displayed in charts and graphs.
6	6.12a	Algebraic Thinking	Ratios and Rates	Ratios	Students will compare two quantities in a given set using words and mathematical notation.
6	6.12a	Algebraic Thinking	Ratios and Rates	Use Ratios and Double Number Lines	Students will solve real-world double number line ratio and rate problems.
6	6.12b	Algebraic Thinking	Ratios and Rates	Unit Rates	Students will describe a unit rate relationship using correct unit rate language.
6	6.12b	Algebraic Thinking	Ratios and Rates	Use Ratios and Equations	Students will solve real-world ratio and rate problems using equations and the unit rate.
6	6.12b	Algebraic Thinking	Ratios and Rates	Solve Unit Rate Problems	Students will solve problems using unit rates.
6	6.12b 6.12d	Algebraic Thinking	Ratios and Rates	Use Ratios and Tables	Students will solve real-world table ratio and rate problems.
6	6.12b 6.12d	Algebraic Thinking	Ratios and Rates	Tables of Equivalent Ratios	Students will create and use tables involving whole-number measurements.
6	6.12d	Algebraic Thinking	Ratios and Rates	Use Tables to Compare Ratios	Students will use tables to compare ratios involving whole-number measurements.
6	6.12d	Algebraic Thinking	Ratios and Rates	Use Tables and the Coordinate Plane	Students will solve plotted pair problems involving ratios.
6	6.13	Algebraic Thinking	Evaluate Whole-Number Expressions	Record Operations	Students will interpret verbal expressions to construct algebraic expressions that record operations with numbers and letters standing for numbers.
6	6.14a 6.14b	Algebraic Thinking	Introduction to Inequalities	Inequalities	Students will use substitution to determine if given values are part of the solution set of an inequality.
6	6.14a 6.14b	Algebraic Thinking	Introduction to Inequalities	Graph to Symbols	Students will write an inequality for a graph displayed on a number line.
6	6.14a 6.14b	Algebraic Thinking	Introduction to Inequalities	Graph Inequalities	Students will draw a graph of a given inequality.
6	6.14a 6.14b	Algebraic Thinking	Introduction to Inequalities	Represent Real-World Inequalities	Students will represent a real-world situation as an inequality and graph it.
7	7.1c	Number & Quantity	Rational Numbers	Convert Fractional and Decimal Numbers	Students will convert rational numbers written as common fractions to decimal numbers.
7	7.1c	Number & Quantity	Rational Numbers	Terminating & Repeating Decimal Numbers	Students will determine whether a rational number is terminating or repeating.
7	7.1c	Number & Quantity	Rational Numbers	Approximate Rational Numbers	Students will demonstrate understanding of approximating rational numbers.
7	7.1c	Number & Quantity	Rational Numbers	Compare Rational Numbers	Students will compare rational numbers, including fractions and decimal numbers.
7	7.2	Operations	Addition and Subtraction of Integers	Use Number Lines to Add Integers	Students will use number lines to model number sentences involving the addition of two integers.
7	7.2	Operations	Addition and Subtraction of Integers	Use Counters to Add Integers	Students will use counters to model the sum of two integers and complete the associated number sentence.

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Grade	VA Standard	Strand	Module Title	Lesson Title	Learning Goal
7	7.2	Operations	Addition and Subtraction of Integers	Add Two Integers	Students will use the rules for adding integers.
7	7.2	Operations	Addition and Subtraction of Integers	Use Number Lines to Subtract Integers	Students will use number lines to model number sentences involving the subtraction of two integers.
7	7.2	Operations	Addition and Subtraction of Integers	Use Counters to Subtract Integers	Students will use counters to model the subtraction of two integers and complete the associated number sentence.
7	7.2	Operations	Addition and Subtraction of Integers	Subtract Two Integers	Students will use opposites to subtract one integer from another.
7	7.2	Operations	Addition and Subtraction of Integers	Add or Subtract Three or More Integers	Students will add and subtract three or more integers.
7	7.2	Operations	Multiplication and Division of Integers	Use Number Lines to Multiply Integers	Students will use a number line model to find the product of two integers.
7	7.2	Operations	Multiplication and Division of Integers	Multiply Two Integers	Students will multiply two integers.
7	7.2	Operations	Multiplication and Division of Integers	Multiply Three or More Integers	Students will multiply three or more integers.
7	7.2	Operations	Multiplication and Division of Integers	Divide Integers	Students will divide two integers.
7	7.2	Operations	Multiplication and Division of Integers	Multiply or Divide Several Integers	Students will demonstrate knowledge of multiplication and division.
7	7.2	Operations	Multiplication and Division of Integers	Integers in Real-World Situations	Students will interpret products and quotients of integers with real world context.
7	7.2	Operations	Addition and Subtraction of Signed Fractions	Write Negative Fractions Three Ways	Students will recognize different forms of negative fractions.
7	7.2	Operations	Addition and Subtraction of Signed Fractions	Add/Subtract Signed Like Fractions	Students will add and subtracting signed fractions with like denominators.
7	7.2	Operations	Addition and Subtraction of Signed Fractions	Add/Subtract Signed Unlike Fractions	Students will add and subtract signed fractions with unlike denominators.
7	7.2	Operations	Addition and Subtraction of Signed Fractions	Add Three or More Signed Fractions	Students will add three or more signed fractions with unlike denominators.
7	7.2	Operations	Addition and Subtraction of Signed Fractions	Add Signed Mixed Numbers	Students will add signed mixed numbers.
7	7.2	Operations	Addition and Subtraction of Signed Fractions	Subtract Signed Mixed Numbers	Students will subtract signed mixed numbers.
7	7.2	Operations	Operations with Rational Numbers (Module 66)	Multiply Two Signed Fractions	Students will multiply two signed fractions.
7	7.2	Operations	Operations with Rational Numbers (Module 66)	Multiply Three or More Signed Fractions	Students will multiply three or more signed fractions.
7	7.2	Operations	Operations with Rational Numbers (Module 66)	Divide Signed Fractions	Students will divide two signed fractions.
7	7.2	Operations	Multiplication and Division of Mixed Numbers	Estimate Rational Products and Quotients	Students will estimate the products and quotients of mixed numbers.

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Grade	VA Standard	Strand	Module Title	Lesson Title	Learning Goal
7	7.2	Operations	Multiplication and Division of Mixed Numbers	Multiply with Signed Mixed Numbers	Students will multiply expressions involving signed mixed numbers.
7	7.2	Operations	Multiplication and Division of Mixed Numbers	Multiply Three or More Rational Numbers	Students will multiply three or more fractions, mixed numbers, and/or integers
7	7.2	Operations	Multiplication and Division of Mixed Numbers	Divide Positive Mixed Numbers	Students will divide positive mixed numbers.
7	7.2	Operations	Multiplication and Division of Mixed Numbers	Divide Signed Mixed Numbers	Students will divide expressions involving signed mixed numbers.
7	7.2	Operations	Operations with Signed Decimal Numbers	Add Signed Decimal Numbers	Students will add two signed decimal numbers.
7	7.2	Operations	Operations with Signed Decimal Numbers	Add Three or More Signed Decimal Numbers	Students will add three or more signed decimal numbers.
7	7.2	Operations	Operations with Signed Decimal Numbers	Subtract Signed Decimal Numbers	Students will subtract two signed decimal numbers.
7	7.2	Operations	Operations with Signed Decimal Numbers	Multiply Signed Decimal Numbers	Students will multiply signed decimal numbers.
7	7.2	Operations	Operations with Signed Decimal Numbers	Divide Signed Decimal Numbers	Students will divide two signed decimal numbers.
7	7.2	Operations	Addition and Multiplication Properties	Additive Inverse	Students will find the additive inverse of a rational number.
7	7.2	Operations	Addition and Multiplication Properties	Additive Property of Zero	Students will use the Additive Identity property.
7	7.2	Operations	Addition and Multiplication Properties	Properties and Equivalent Expressions	Students will identify the additive inverse and use the Additive Identity, Associative, and Commutative Properties of Addition to find an expression equivalent to a given expression and simplify an expression.
7	7.2	Operations	Addition and Multiplication Properties	Multiplicative Inverse	Students will determine the multiplicative inverses of given numbers and monomials.
7	7.2	Operations	Addition and Multiplication Properties	Multiplicative Properties-One and Zero	Students will use the Multiplicative Property of Zero and the Multiplicative Identity Property.
7	7.2	Algebraic Thinking	Word Problems with Rational Numbers	Apply Rational Numbers (Single Form)	Students will use a model or an equation and then perform the calculations to solve word problems involving a single type of rational number and any of the four operations.
7	7.2	Algebraic Thinking	Word Problems with Rational Numbers	Apply Rational Numbers (Mixed Form)	Students will represent the problem using a model or an equation and then perform the calculations to solve word problems involving several forms of rational numbers and any of the four operations.
7	7.2	Algebraic Thinking	Word Problems with Rational Numbers	Reasonable Answers (Same Form)	Students will compare their estimate to the solution to check their solution to a word problem involving rational numbers of the same form for reasonableness.

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Grade	VA Standard	Strand	Module Title	Lesson Title	Learning Goal
7	7.2	Algebraic Thinking	Word Problems with Rational Numbers	Reasonable Answers (Different Form)	Students will compare their estimate to the solution to check their solution to a word problem involving rational numbers of different forms for reasonableness.
7	7.2	Algebraic Thinking	Identify Equivalent Rational Expressions	Order of Operations-Integer Expressions	Students will use the order of operations to evaluate numerical expressions involving integers.
7	7.2	Algebraic Thinking	Identify Equivalent Rational Expressions	Order of Operations-Rational Expressions	Students will use the order of operations to evaluate numerical expressions involving rational numbers.
7	7.2	Algebraic Thinking	Identify Equivalent Rational Expressions	Combine Rational Expressions	Students will use addition and subtraction to combine like terms to simplify algebraic expressions with rational coefficients.
7	7.2	Algebraic Thinking	Identify Equivalent Rational Expressions	Expand with Rational Coefficients	Students will use the Distributive Property to demonstrate an understanding of expanding an expression with rational coefficients.
7	7.2	Algebraic Thinking	Identify Equivalent Rational Expressions	Factor with Rational Coefficients	Students will use the Distributive Property to write the sum of two terms with rational number coefficients as a product.
7	7.3	Algebraic Thinking	Proportional Relationships	Cross Multiplication	Students will compare ratios and solve for unknown quantities in a proportion.
7	7.3	Algebraic Thinking	Proportional Relationships	Proportional Relationships-Tables	Students will analyze tables and determine whether given tables represent a proportional relationship.
7	7.3	Algebraic Thinking	Proportional Relationships	Proportional Relationships-Graphs	Students will recognize proportional relationships in graphs.
7	7.3	Algebraic Thinking	Proportional Relationships	Constant of Proportionality-Tables	Students will use values in a table to find the constant of proportionality.
7	7.3	Algebraic Thinking	Proportional Relationships	Constant of Proportionality-Diagrams	Students will use a diagram to find the constant of proportionality.
7	7.3	Algebraic Thinking	Proportional Relationships	Constant of Proportionality-Graphs	Students will use information from a graph to find the constant of proportionality.
7	7.3	Algebraic Thinking	Proportional Relationships	Constant of Proportionality-Descriptions	Students will use a verbal description to find the constant of proportionality.
7	7.3	Algebraic Thinking	Proportional Relationships	Proportional Relationships as Equations	Students will find the constant of proportionality and use it to construct an equation.
7	7.3	Algebraic Thinking	Proportional Relationships	Interpret Proportional Relationships	Students will demonstrate their understanding of the relationship between a proportional relationship and a point on a graph.
7	7.3	Algebraic Thinking	Proportional Relationships	Compute Unit Rates-Simple Fractions	Students will use simple fractions to compute unit rates.
7	7.3	Algebraic Thinking	Proportional Relationships	Compute Unit Rates-Complex Fractions	Students will use complex fractions to compute unit rates.
7	7.3	Algebraic Thinking	Use Proportional Relationships	Calculate Simple Interest	Students will use proportions to solve simple interest problems.

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Grade	VA Standard	Strand	Module Title	Lesson Title	Learning Goal
7	7.3	Algebraic Thinking	Use Proportional Relationships	Calculate Markup and Markdown	Students will use proportions to solve problems involving markup and markdown.
7	7.3	Algebraic Thinking	Use Proportional Relationships	Calculate Gratuities and Commissions	Students will solve problems involving gratuities and commissions.
7	7.3	Algebraic Thinking	Use Proportional Relationships	Calculate Fees	Students will solve problems involving fees.
7	7.3	Algebraic Thinking	Use Proportional Relationships	Calculate Taxes	Students will use proportions to solve problems involving taxes.
7	7.3	Algebraic Thinking	Use Proportional Relationships	Calculate Percent Increase or Decrease	Students will find the percent change posed in real-world problems.
7	7.3	Algebraic Thinking	Use Proportional Relationships	Calculate Percent Error	Students will use proportions to solve problems involving percent error.
7	7.3	Measurement	Scale Drawings	Find the Scale Factor	Students will find scale factors of a scale drawing in a different scale given similar figures.
7	7.3	Measurement	Scale Drawings	Identify Scale Drawings	Students will identify scale drawings.
7	7.4a 7.4b	Measurement	Circumference and Area	Parts of a Circle	Students will identify parts of a circle.
7	7.4a 7.4b	Measurement	Circumference and Area	Diameter and Circumference	Students will find the circumference and diameter of a circle.
7	7.4a 7.4b	Measurement	Circumference and Area	Calculate the Area of a Circle	Students will find the area of a circle.
7	7.4a 7.4b	Measurement	Circumference and Area	Solve Problems-Area and Circumference	Students will solve real-world problems involving the area and circumference of circles.
7	7.4a 7.4b	Measurement	Surface Area	Find Surface Area of Rectangular Prisms	Students will interpret figures to derive the surface area of rectangular prisms.
7	7.4b	Measurement	Scale Drawings	Area in Scale Drawings	Students will compute the area of a polygon.
7	7.5	Measurement	Scale Drawings	Length and Perimeter in Scale Drawings	Students will compute side lengths and perimeter of geometric figures from scale drawings.
7	7.5	Measurement	Scale Drawings	Compute Length Based on a Scale Model	Students will solve real world problems using scale models.
7	7.8a	Statistical Analysis	Simple Probability	Introduce Probability	Students will understand that probability is expressed as a number between 0 and 1 and can correctly describe an event as certain, likely, equally likely, unlikely, or impossible.
7	7.8a	Statistical Analysis	Simple Probability	Simple Experimental Probability	Students will use experimental data to find the approximate probability of an event and predict the outcomes of a large number of trials.
7	7.8a	Statistical Analysis	Simple Probability	Simple Theoretical Probability	Students will find the theoretical probability of simple independent events.
7	7.8b	Statistical Analysis	Simple Probability	Uniform and Non-Uniform Probabilities	Students will identify uniform or non-uniform probability models.

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Grade	VA Standard	Strand	Module Title	Lesson Title	Learning Goal
8	8.1	Number & Quantity	Scientific Notation	Whole Numbers and Powers of 10	Students will demonstrate the relationship between large whole numbers and powers of ten.
8	8.1	Number & Quantity	Scientific Notation	Large Numbers in Scientific Notation	Students will demonstrate knowledge of displaying large numbers in scientific notation and converting scientific notation to standard form.
8	8.1	Number & Quantity	Scientific Notation	Negative Exponents	Students will demonstrate knowledge of negative exponents.
8	8.1	Number & Quantity	Scientific Notation	Very Small Numbers and Powers of 10	Students will demonstrate the relationship between very small numbers and powers of ten.
8	8.1	Number & Quantity	Scientific Notation	Small Numbers in Scientific Notation	Students will demonstrate knowledge of displaying small numbers in scientific notation and converting scientific notation to standard form.
8	8.1	Number & Quantity	Scientific Notation	Estimate Using Scientific Notation	Students will demonstrate an understanding of estimating with scientific notation.
8	8.1	Operations	Operations With Scientific Notation	Multiply Numbers in Scientific Notation	Students will multiply numbers written in scientific notation form with whole number exponents.
8	8.1	Operations	Operations With Scientific Notation	Divide Numbers in Scientific Notation	Students will divide numbers written in scientific notation form with whole number exponents.
8	8.1	Operations	Operations With Scientific Notation	Multiply and Divide Integer Exponents	Students will multiply and divide numbers written in scientific notation form with integer exponents.
8	8.1	Operations	Operations With Scientific Notation	Add and Subtract in Scientific Notation	Students will add and subtract numbers written in scientific notation form with integer exponents.
8	8.1	Operations	Operations With Scientific Notation	Compare Using Scientific Notation	Students will compare the value of expressions written in scientific notation.
8	8.5	Geometry	Angles and Parallel Lines	Vertical/Adjacent/Corresponding Angles	Students will describe and identify vertical, adjacent, and corresponding angles formed by parallel lines intersected by a transversal.
8	8.5	Geometry	Angles and Parallel Lines	Find Unknown Angle Measures	Students will find unknown angle measures created by parallel lines and a transversal in a diagram.
8	8.3a	Number & Quantity	Roots	Estimate Square Roots	Students will estimate square roots between the nearest two whole numbers, 0-12.
8	8.3b	Number & Quantity	Roots	Square Roots of Perfect Squares	Students will find the square root of a perfect square with a base of 1-12.
8	8.6a	Measurement	Cylinders, Cones and Spheres	Find the Volume of a Cylinder	Students will find the volume of a cylinder.
8	8.6a	Measurement	Cylinders, Cones and Spheres	Find the Volume of a Cone	Students will find the volume of a cone.
8	8.6a	Measurement	Cylinders, Cones and Spheres	Solve Problems-Cylinder, Cone, Sphere	Students will solve real-world problems involving the volume of cylinders, cones, and spheres.

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Grade	VA Standard	Strand	Module Title	Lesson Title	Learning Goal
8	8.6a	Geometry	Spheres, Cones, and Cylinders	Identify Cylinders, Cones, and Spheres	Students will identify cylinders, cones, and spheres.
8	8.6a	Geometry	Spheres, Cones, and Cylinders	Parts of a Cylinder	Students will identify parts of a cylinder.
8	8.6a	Geometry	Spheres, Cones, and Cylinders	Parts of a Cone	Students will identify parts of a cone.
8	8.7a	Geometry	Transformations and Coordinates	Translations in the Coordinate Plane	Students will identify the translation of a polygon by using coordinates.
8	8.7a	Geometry	Transformations and Coordinates	Reflections in the Coordinate Plane	Students will identify the coordinates of a reflected polygon across the x- and/or y-axis and identify the type of reflection.
8	8.7a	Geometry	Transformations and Coordinates	Rotations in the Coordinate Plane	Students will determine the angle of rotation and identify the image with coordinates of a rotated polygon using the angle of rotation.
8	8.7a	Geometry	Transformations and Coordinates	Dilations in the Coordinate Plane	Students will demonstrate knowledge of a scale factor for a dilation.
8	8.7a 8.7b	Geometry	Transformations and Coordinates	Effects of Transformations	Students will demonstrate understanding that lines are taken to lines, line segments to line segments, angles to angles, and parallel lines to parallel lines of the same length and measure when translated, rotated, or reflected.
8	8.7a 8.7b	Geometry	Transformations and Coordinates	Multiple Transformations	Students will demonstrate knowledge of multiple transformations of different types.
8	8.7a 8.7b	Geometry	Congruent and Similar Figures	Congruence and Transformations	Students will list a sequence of transformations between two figures to describe congruent figures.
8	8.7a 8.7b	Geometry	Congruent and Similar Figures	Similarity and Transformations	Students will list a sequence of transformations between two figures to describe similar figures.
8	8.7b	Geometry	Congruent and Similar Figures	Recognize Congruent Figures	Students will recognize and describe congruent 2-dimensional figures with congruency statements.
8	8.7b	Geometry	Congruent and Similar Figures	Recognize Similar Figures	Students will select appropriate figures and characteristics of figures to describe similar 2-dimensional figures.
8	8.9a	Geometry	Right Triangles	The Pythagorean Theorem	Students will use the proofs of the Pythagorean Theorem and its converse to identify right triangles.
8	8.9b	Geometry	Right Triangles	Use Pythagorean Theorem in 2-D	Students will use the Pythagorean Theorem to determine the unknown side length of a right triangle.
8	8.9b	Geometry	Right Triangles	Use Pythagorean Theorem for Distance	Students will use the Pythagorean Theorem to find the distance between two points in a coordinate system.
8	8.9b	Geometry	Right Triangles	Apply Pythagorean Theorem in 2-D	Students will use the Pythagorean Theorem to determine the unknown side length of a right triangle in order to solve problems.

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Grade	VA Standard	Strand	Module Title	Lesson Title	Learning Goal
8	8.9b	Geometry	Right Triangles	Use Pythagorean Theorem in 3-D	Students will use the Pythagorean Theorem to determine the unknown side length of a right triangle in a 3-dimensional figure.
8	8.9b	Geometry	Right Triangles	Apply Pythagorean Theorem in 3-D	Students will use the Pythagorean Theorem to determine the unknown side length of a right triangle in a three-dimensional figure in order to solve problems.
8	8.13a	Statistical Analysis	Scatter Plots	Construct Scatter Plots	Students will construct scatter plots with given data.
8	8.13b	Statistical Analysis	Scatter Plots	Clusters in Scatter Plots	Students will identify and interpret clustering on a scatter plot.
8	8.13b	Statistical Analysis	Scatter Plots	Outliers in Scatter Plots	Students will identify and interpret outliers on a scatter plot.
8	8.13b	Statistical Analysis	Scatter Plots	Positive and Negative Associations	Students will identify and interpret negative, positive, or no association on a scatter plot.
8	8.13b	Statistical Analysis	Scatter Plots	Linear and Nonlinear Associations	Students will identify examples of linear and nonlinear associations on a scatter plot.
8	8.13b	Statistical Analysis	Scatter Plots and Linear Equations	Interpret y-Intercept	Students will find the y-intercept of a line of best fit on a scatterplot and indicate what it means in the context of the data.
8	8.13b	Statistical Analysis	Scatter Plots and Linear Equations	Interpret Slope	Students will find the slope of a line of best fit on a scatterplot and interpret what the slope means in the context of the data.
8	8.13b	Statistical Analysis	Scatter Plots and Linear Equations	Solve Problems-Equation of Linear Models	Students will use the equation of a linear model to solve problems in the context of bivariate measurement data.
8	8.13c	Statistical Analysis	Scatter Plots and Linear Equations	Lines of Best Fit	Students will determine the line of best fit.
8	8.15a	Algebraic Thinking	Introduction to Functions	Identify Functions in Tables and Lists	Students will determine whether a relation given as a set of ordered pairs or a rule for generating y values is a function by determining whether each input value has only one output value.
8	8.15a	Algebraic Thinking	Linear Functions	Linear and Nonlinear Equations	Students will distinguish between linear and nonlinear functions by interpreting equations.
8	8.15a	Algebraic Thinking	Linear Functions	Linear and Nonlinear Graphs	Students will examine graphs and indicate whether the graphs are linear or nonlinear.
8	8.15a 8.16e	Algebraic Thinking	Introduction to Functions	Identify Functions in Graphs	Students will determine whether a relation given as a graph is a function by determining whether each input value (x) has only one output value (y).
8	8.15b	Algebraic Thinking	Introduction to Functions	Function Notation	Students will substitute to determine the value of y ($f(x)$) given an input value and a rule in $f(x)$ form.
8	8.15b 8.16e	Algebraic Thinking	Introduction to Functions	Domain and Range	Students will interpret input, output, domain, and range from rules, tables or a graph.

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Grade	VA Standard	Strand	Module Title	Lesson Title	Learning Goal
8	8.16a	Algebraic Thinking	Equation of a Line	The Slope of a Line	Students will determine the slope of a non-vertical line given the graph of the line or a table showing values of the function by determining the change in y divided by the change in x .
8	8.16a	Algebraic Thinking	Equation of a Line	Similar Triangles and Slope	Students will examine similar triangles on a coordinate plane and relate the ratio of the legs of similar triangles to rise/run, or slope.
8	8.16b	Algebraic Thinking	Equation of a Line	Find the Intercepts	Students will identify the x - and y -intercepts of a non-vertical line given the graph of a line or a table showing values.
8	8.16b	Algebraic Thinking	Equation of a Line	Equations for Lines through the Origin	Students will identify the correct equation in the form $y = mx$ for lines through the origin given the graph of the line.
8	8.16b	Algebraic Thinking	Equation of a Line	Find the Equation for a Line	Students will identify the correct equation in the form $y = mx + b$ for lines intercepting the vertical axis at b given the graph of the line.
8	8.16b	Algebraic Thinking	Linear Functions	Find Rate of Change and Initial Value	Students will determine the rate of change and initial value of a function by interpreting a description of the function.
8	8.16b	Algebraic Thinking	Linear Functions	Rate of Change and Initial Value (Graph)	Students will identify the rate of change and the initial value of a function given a linear graph.
8	8.16d	Algebraic Thinking	Linear Functions	General Equation of a Linear Function	Student will create function tables and graphs using the equation $y = mx + b$ and answer questions about the linear equation.
8	8.16e	Algebraic Thinking	Introduction to Functions	Interpret a Qualitative Graph	Students will analyze and answer questions about a qualitative graph.
8	8.16e	Algebraic Thinking	Introduction to Functions	Identify a Qualitative Graph	Students will use features of a qualitative relationship presented verbally to identify the correct graph.
8	8.16e	Algebraic Thinking	Linear Functions	Model Linear Relationships	Students will model a linear relationship by constructing a function rule.
8	8.16e	Algebraic Thinking	Linear Functions	Find a Function Rule (Graph)	Students will analyze a linear graph and select the correct function rule.
8	8.16e	Algebraic Thinking	Analyze Functions	Compare Functions as Rule and Graph	Students will compare two functions, one given algebraically and one given as a graph, and determine the rate of change and initial values of each.
8	8.16e	Algebraic Thinking	Analyze Functions	Compare Functions as Rule and Verbally	Students will compare two functions, one given algebraically and one given verbally, and determine the rate of change and initial values of each.
8	8.16e	Algebraic Thinking	Analyze Functions	Compare Functions as Table and Graph	Students will compare two functions, one given as a table and one given as a graph, and determine the rate of change and initial values of each.

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Grade	VA Standard	Strand	Module Title	Lesson Title	Learning Goal
8	8.16e	Algebraic Thinking	Analyze Functions	Compare Two Functions	Students will compare two functions given in different forms and determine the rate of change and initial values of each.
8	8.16e	Algebraic Thinking	Proportional Relationships on a Graph	Graph Proportional Relationships	Given an equation with a unit rate, students will identify the unit rate or constant of proportionality to identify and plot the (x, y) coordinates of the line, and identify the correct graph of a linear equation.
8	8.16e	Algebraic Thinking	Proportional Relationships on a Graph	Find the Unit Rate	Students will be given a graph of a proportional relationship, identify the slope of the line as the unit rate, and identify an equation that represents the proportional relationship.
8	8.16e	Algebraic Thinking	Proportional Relationships on a Graph	Compare Proportional Relationships	Students will compare two real-world or mathematical proportional relationships represented in different ways.
8	8.17	Algebraic Thinking	Solve Linear Equations in One Variable	Collect Like Terms	Students will solve linear equations whose solutions require collecting like terms.
8	8.17	Algebraic Thinking	Solve Linear Equations in One Variable	Variables on Both Sides	Students will solve linear equations with variable on both sides.
8	8.17	Algebraic Thinking	Solve Linear Equations in One Variable	Rational Number Coefficients	Students will solve linear equations in one variable with rational number coefficients.
8	8.17	Algebraic Thinking	Solve Linear Equations in One Variable	Solve Using the Distributive Property	Students will solve linear equations in the form $p(x + q) = r$ that require expanding.
8	8.17	Algebraic Thinking	Solve Linear Equations in One Variable	One, No, or Many Solutions	Students will demonstrate their understanding of linear equations by identifying whether they have one solution, no solution, or infinitely many solutions.