Grade	Standards of learning (SOL)		Supplement lesson	
	K.2b	The student, given no more than three sets, each set containing 10 or fewer concrete objects, will compare and order sets from least to greatest and greatest to least.	Ordering objects In this lesson, students order three sets of objects from least to greatest and greatest to least.	
	K.5	The student will investigate fractions by representing and solving practical problems involving equal sharing with two shares.	Sharing between two In this lesson, students use grouping and sharing mats to help share quantities equally between two groups.	
K			Making equal shares In this lesson, students partition everyday objects into two equal shares.	
	K.8	The student will investigate the passage of time by reading and interpreting a calendar.	Investigating the months of the year In this lesson, students interpret a calendar.	
			Working with the days of the week In this lesson, students name the seven days of the week. They also identify the day before or after a given day.	
	K.9	The student will compare two objects or events, using direct comparisons, according to one or more of the following attributes: length (longer, shorter), height (taller, shorter), weight (heavier, lighter), temperature (hotter, colder), volume (more, less), and time (longer, shorter).	Discussing hot and cold temperatures In this lesson, students make direct comparisons to identify examples of hot and cold.	
	K.11b	The student will read and interpret data in object graphs, picture graphs, and tables.	Making a block graph In this small group activity, students make a block graph to show their favorite animal at the zoo.	
	1.4a	The student will represent and solve practical problems involving equal sharing with two or	Identifying one-half and one-fourth (set model) In this lesson, students share collections of cubes equally between two and	
1	1.5a	The student, given a familiar problem situation involving magnitude, will select a reasonable order of magnitude from three given quantities: a one-digit numeral, a two-digit numeral, and a three-digit numeral (e.g., 5, 50, 500).	then four groups. Exploring magnitude In this lesson, students provide reasonable estimates for everyday problems involving magnitude.	
	1.5b	The student, given a familiar problem situation involving magnitude, will explain the reasonableness of the choice.	Exploring magnitude In this lesson, students provide reasonable estimates for everyday problems involving magnitude.	
	1.9b	The student will investigate the passage of time and read and interpret a calendar.	Working with the calendar In this lesson, students read and interpret a calendar.	
	1.13	The student will sort and classify concrete objects according to one or two attributes.	Recognizing and describing features of everyday objects In this lesson, students identify everyday objects and describe their defining features.	

Grade	Standards of learning (SOL)		Supplement lesson	
	2.1d	Round two-digit numbers to the nearest ten.	Rounding numbers to the nearest ten In this lesson, students use the aid of a curvy number line to help round two-digit numbers to the nearest ten.	
2	2.3a	The student will count and identify the ordinal positions first through twentieth, using an ordered set of objects.	Matching ordinal number names and symbols In this lesson, ordinal number names are extended to twentieth (and beyond) through the investigation of birthdays and calendars.	
	2.3b	The student will write the ordinal numbers 1st through 20th.	Matching ordinal number names and symbols In this lesson, ordinal number names are extended to twentieth (and beyond) through the investigation of birthdays and calendars.	
	2.4a	The student will name and write fractions represented by a set, region, or length model for halves, fourths, eighths, thirds, and sixths.	Recording fractions and the relationship of the parts to the whole (set model) In this lesson, students read and write unit fractions using a set model.	
	2.4c	The student will compare the unit fractions for halves, fourths, eighths, thirds, and sixths, with models.	To address this standard teachers are redirected to Grade 3, Module 8, Lessons 8 and 9.	
	2.7a	The student will count and compare a collection of pennies, nickels, dimes, and quarters whose total value is \$2.00 or less.	Identifying and comparing amounts of money (coins) In this lesson, students identify and compare amounts of money (coins).	
	2.7c	The student will use the cent symbol, dollar symbol, and decimal point to write a value of money.	Identifying and comparing amounts of money (coins) In this lesson, students identify and compare amounts of money (coins).	
	2.10a	The student will determine past and future days of the week.	Working with the calendar In this lesson, students interpret a calendar and identify given dates.	
	2.10b	The student will identify specific days and dates on a given calendar.	Working with the calendar In this lesson, students interpret a calendar and identify given dates.	
	2.11	The student will read temperature to the nearest 10 degrees.	Reading temperatures on a scale In this lesson, students read, write, and represent temperatures that are shown on a thermometer.	
	2.12a	The student will draw a line of symmetry in a figure.	Making shapes with mirror lines In this lesson, students are given instructions to make a reflection. They also draw the other side of a reflected shape.	
	2.12b	The student will identify and create figures with at least one line of symmetry.	Making shapes with mirror lines In this lesson, students are given instructions to make a reflection. They also draw the other side of a reflected shape.	
	2.14	The student will use data from probability experiments to predict outcomes when the experiment is repeated.	Predicting outcomes of a chance experiment In this lesson, students predict outcomes of a chance experiment.	
	2.16	The student will identify, describe, create, extend, and transfer patterns found in objects, pictures, and numbers.	Exploring patterns In this lesson, students describe, create, and extend repeating and growing patterns.	
			Translating patterns In this lesson, students translate repeating patterns.	
	2.17	The student will demonstrate an understanding of equality through the use of the equal symbol and the use of the not equal symbol.	Balancing addition equations In this lesson, students use a pan balance model to balance equations.	

Grade	Standards of learning (SOL)		Supplement lesson	
	3.5	The student will solve practical problems that involve addition and subtraction with proper fractions having like denominators of 12 or less.	To address this standard teachers are redirected to Grade 4, Module 7, Lesson 5 and Grade 4, Module 7, Lesson 8.	
3	3.6b	The student will compare the value of two sets of coins or two sets of coins and bills.	Working with money In this lesson, students compare values of bills and coins and make transactions.	
	3.6c	The student will make change from \$5.00 or less.	Working with money In this lesson, students compare values of bills and coins and make transactions.	
	3.7a	The student will estimate and use U.S. Customary and metric units to measure length to the nearest $\frac{1}{2}$ inch, foot, yard, centimeter, and meter.	To address these standards teachers are redirected to Grade 2, Module 4, Lessons 7–9 and Grade 2, Module 9, Lessons 9–11.	
	3.9b	The student will solve practical problems related to elapsed time in one-hour increments within a 12-hour period.	The lesson notes for Grade 3, Module 2, Lesson 9 will be adjusted to meet this standard.	
	3.10	The student will read temperature to the nearest degree.	Reading temperatures on a scale In this lesson, students read, write, and represent temperatures that are shown on a thermometer.	
	3.12a	The student will define polygon.	Combining and subdividing polygons In this lesson, students review the definition of a polygon. They then combine and subdivide polygons.	
	3.12c	The student will combine and subdivide polygons with three or four sides and name the resulting polygon(s).	Combining and subdividing polygons In this lesson, students review the definition of a polygon. They then combine and subdivide polygons.	
	3.14	The student will investigate and describe the concept of probability as a measurement of chance and list possible outcomes for a single event.	Identifying outcomes of everyday chance events In this lesson, students list the possible outcomes of a chance event (for example, taking a certain color cube from an opaque bag). They also design chance events to match language.	
	3.17	The student will create equations to represent equivalent mathematical relationships.	Exploring equality (more than two addends) In this lesson, students identify equivalent and non-equivalent relationships.	
	4.2c	The student will identify the division statement that represents a fraction, with models and in context.	To address this standard teachers are redirected to Grade 5, Module 9, Lesson 1.	
4	4.3b	The student will round decimals to the nearest whole number.	To address this standard teachers are redirected to Grade 5, Module 3, Lesson 10.	
	4.11	The student will identify, describe, compare, and contrast plane and solid figures according to their characteristics (number of angles, vertices, edges, and the number and shape of faces) using concrete models and pictorial representations.	To address this standard teachers are redirected to Grade 3, Module 12, Lessons 8 and 9.	
	4.12	The student will classify quadrilaterals as parallelograms, rectangles, squares, rhombi, and/or trapezoids.	To address this standard teachers are redirected to Grade 3, Module 2, Lesson 12.	
	4.13a	The student will determine the likelihood of an outcome of a simple event.	Quantifying the language of chance In this lesson, students quantify the language of chance by assigning values from 0 to 1 to everyday language.	

Grade	Standards of learning (SOL)		Supplement lesson	
	4.13b	The student will represent probability as a number between 0 and 1, inclusive.	Using fractions to describe probabilities In this lesson, students quantify the chance of spinning or not spinning colors or combinations of colors on a spinner. The spinner is partitioned into ten equal parts, allowing students to relate common fractions and decimal fractions.	
4	4.13c	The student will create a model or practical problem to represent a given probability.	Using fractions to describe probabilities In this lesson, students quantify the chance of spinning or not spinning colors or combinations of colors on a spinner. Students then color a spinner or write a story to match a given probability.	
	4.14a	The student will collect, organize, and represent data in bar graphs and line graphs.	Working with bar graphs In this lesson, students collect, represent, and interpret data in bar graphs.	
	4.14b	The student will interpret data represented in bar graphs and line graphs.	Working with line graphs In this lesson, students collect, represent, and interpret data in line graphs.	
	4.14c	The student will compare two different representations of the same data (e.g., a set of data displayed on a chart and a bar graph, a chart and a line graph, or a pictograph and a bar graph.	Comparing bar graphs and line graphs In this lesson, students compare two different representations of the same data.	
	4.16	The student will recognize and demonstrate the meaning of equality in an equation.	Exploring equality In this lesson, students use a range of operations to identify equivalent and non-equivalent relationships.	
5	5.3a	The student will identify and describe the characteristics of prime and composite numbers.	Identifying prime and composite numbers In this lesson, students apply what they know about the characteristics of odd	
	5.3b	The student will identify and describe the characteristics of even and odd numbers.	 and even numbers to help identify numbers that are prime or composite. Identifying prime and composite numbers In this lesson, students apply what they know about the characteristics of odd and even numbers to help identify numbers that are prime or composite. 	
	5.10	The student will identify and describe the diameter, radius, chord, and circumference of a circle.	Identifying parts of a circle In this lesson, students identify the parts of a circle: circumference, center, radius, diameter, and chord. They use a compass to draw circles to match given criteria.	
	5.11	The student will solve practical problems related to elapsed time in hours and minutes within a 24-hour period.	Working with elapsed time In this lesson, students solve problems involving periods of elapsed time.	
	5.13b	Investigate the sum of the interior angles in a triangle and determine an unknown angle measure.	Examining angles around a point In this lesson, students use a benchmark of 180° to calculate an unknown angle inside a triangle.	
	5.14a	The student will recognize and apply transformations, such as translation, reflection, and rotation.	Working with transformations In this lesson, students identify and apply translations, reflections, and rotations.	
	5.14b	The student will investigate and describe the results of combining and subdividing polygons.	Combining and subdividing polygons In this lesson, students describe the results of combining and subdividing polygons.	
	5.15	The student will determine the probability of an outcome by constructing a sample space or using the Fundamental (Basic) Counting Principle.	Working with probability In this lesson, students create lists, tree diagrams, and two-way tables to calculate the sample space of everyday chance events.	
	5.16a	The student, given a practical problem, will represent data in line plots and stem-and-leaf plots.	Working with line plots In this lesson, students represent and interpret data in a line plot.	

Grade	Standards of learning (SOL)		Supplement lesson	
	5.16b	The student, given a practical problem, will interpret data represented in line plots and stem-and-leaf plots.	Working with stem-and-leaf plots In this lesson, students represent and interpret data in a stem-and-leaf plot.	
5	5.16c	The student, given a practical problem, will compare data represented in a line plot with the same data represented in a stem-and-leaf plot.	Solving real-world problems on line plots and stem-and-leaf plots In this lesson, students relate line plots and stem-and-leaf plots to solve everyday problems relating to mass.	
	5.17a	The student, given a practical context, will describe mean, median, and mode as measures of center.	To address this standard teachers are redirected to Grade 6, Module 9, Lessons 5–8.	
	5.17b	The student, given a practical context, will describe mean as fair share.	To address this standard teachers are redirected to Grade 6, Module 9, Lesson 8.	
	5.17c	The student, given a practical context, will describe the range of a set of data as a measure of spread.	To address this standard teachers are redirected to Grade 6, Module 9, Lessons 5–8.	
	5.17d	The student, given a practical context, will determine the mean, median, mode, and range of a set of data.	To address this standard teachers are redirected to Grade 6, Module 9, Lessons 5–8.	
	6.7a	The student will derive π (pi).	Calculating the area of a circle In this lesson, students are introduced to the concept of pi. This understanding is then applied to calculate the area of a circle.	
	6.7b	The student will solve problems, including practical problems, involving circumference and area of a circle.	Calculating the area of a circle In this lesson, students are introduced to the concept of pi. This understanding is then applied to calculate the area of a circle.	
	6.9	The student will determine congruence of segments, angles, and polygons.	Identifying congruent shapes In this lesson, students identify congruent and non-congruent polygons.	
6	6.10a	The student, given a practical situation, will represent data in a circle graph.	Creating and interpreting circle graphs In this lesson, students build upon their understanding of percentage to create and interpret a circle graph.	
	6.10b	The student, given a practical situation, will make observations and inferences about data represented in a circle graph.	Creating and interpreting circle graphs In this lesson, students build upon their understanding of percentage to create and interpret a circle graph.	
	6.10c	The student, given a practical situation, will compare circle graphs with the same data represented in bar graphs, pictographs, and line plots.	Comparing circle graphs and bar graphs In this lesson, students compare two different representations of the same data.	

DRAFT Virginia Supplement

Summary of Virginia Supplement Lessons

Standards of learning (SOL)		Supplement lesson	Summary
2.4a 2.4b	The student will name and write fractions represented by a set, region, or length model for halves, fourths, eighths, thirds and sixths. The student will represent fractional parts with models and with symbols.	Recording fractions and the relationship of the parts to the whole (set model)	The lesson below provides an example of how ORIGO Education will represent the fractions set model in the Virginia Supplement.

Standards of learning (SOL)		Supplement lesson	Summary
3.14	The student will investigate and describe the concept of probability as a measurement of chance and list possible outcomes for a single event.	Probability: Describing the likelihood of a chance event	
4.13a 4.13b	The student will determine the likelihood of an outcome of a simple event. The student will represent probability as a number between 0 and 1, inclusive.	Probability: Determining the likelihood of an outcome	The lessons below provide examples of how ORIGO Education will address probability across Grades 3–5 in the Virginia Supplement.
5.15	The student will determine the probability of an outcome by constructing a sample space or using the Fundamental (Basic) Counting Principle.	Probability: Working with sample space	

Standards of learning (SOL): 2.4a, 2.4b – The student will model, name, and write fractions represented by a set, region, or length model for halves, fourths, eighths, thirds, and sixths.





Standards of learning (SOL): 3.14 -The student will use everyday language to describe the likelihood of chance events.





Standards of learning (SOL): 4.13a, 4.13b -The student will assign a value between 0 and 1 to describe the likelihood of an outcome.





Standards of learning (SOL): 5.15 - The student will determine the probability of an outcome by constructing a sample space.



