



Virginia State Kindergarten Math Standards Alignment to Starfall

Strand: Number and Number Sense

Virginia Standards	Starfall K Math Alignment
<p>K.1 The student will</p> <p>a) tell how many are in a given set of 20 or fewer objects by counting orally.</p>	<p>Teacher's Guide p. 47 - Count Down From Five Teacher's Guide p. 68 - Math Bag Objects Teacher's Guide p. 87 - Use Math Strategies Teacher's Guide p. 190 - Equivalent Coins Teacher's Guide p. 191 - Which is Worth More? Teacher's Guide pp. 192-193 - Math Bags and Coins Teacher's Guide p. 193 - Demonstrate Story Problem #1. Teacher's Guide p. 213 - Place Value and Equations with Ten-Frames <i>Starfall.com</i>: Math Songs: "Once I Caught a Fish Alive" <i>Starfall.com</i>: Math Songs: "5 Little Bears" <i>Starfall.com</i>: Math Songs: "5 Little Speckled Frogs"</p>

Virginia Standards	Starfall K Math Alignment
<p>K.1 The student will</p> <p>b) read, write, and represent numbers from 0 through 20.</p>	<p>Teacher's Guide pp. 199-248 - Unit 5: Troublesome Teens Teacher's Guide p. 232 - Writing Numerals Teacher's Guide p. 235 - Summative Assessment: Represent Numbers Teacher's Guide pp. 246-247 - Introduce 20 Teacher's Guide p. 248 - Learning Centers: Computer Teacher's Guide p. 248 - Learning Centers: A Walk in the Park Teacher's Guide p. 249 - Learning Centers: Dot-to-Dot (1-20) Teacher's Guide p. 319 - Make a Representation Chart Teacher's Guide pp. 546-547 - Numbers 10-20 Backpack Bear's Math Workbook 1 - Numbers 1 - 20 <i>Starfall.com</i>: Numbers: "Counting Train"</p>

Virginia Standards	Starfall K Math Alignment
<p>K.2 The student, given no more than three sets, each set containing 10 or fewer concrete objects, will</p> <p>a) compare and describe one set as having more, fewer, or the same number of objects as the other set(s).</p>	<p>Teacher's Guide p. 155 - Evaluate Most, Least, and Same Teacher's Guide pp. 156-158 - Greater Than and Less Than Teacher's Guide pp. 187-188 - Using Ten Frames to Demonstrate More Teacher's Guide p. 189 - Number Line Riddles Teacher's Guide p. 288 - One Less Teacher's Guide p. 342 - One More/One Less Teacher's Guide p. 415 - Pocket Chart Game Teacher's Guide p. 490 - Creating Equal Groups Teacher's Guide p. 633 - How Many More or Less? Starfall.com: Numbers: "Strawberry Scale"</p>

Virginia Standards	Starfall K Math Alignment
<p>K.2 The student, given no more than three sets, each set containing 10 or fewer concrete objects, will</p> <p>b) compare and order sets from least to greatest and greatest to least.</p>	<p>Teacher's Guide p. 156 - Greater Than and Less Than Teacher's Guide p. 157 - Demonstrate Greater Than/Less Than Teacher's Guide p. 158 - Use Five-Frames Teacher's Guide p. 186 - Demonstrate More and Less Teacher's Guide p. 187 - Using Ten-Frames to Demonstrate More Backpack Bear's Math Workbook 2- p. 47 - Show What You Know</p>

Virginia Standards	Starfall K Math Alignment
<p>K.3 The student will</p> <p>a) count forward orally by ones from 0 to 100.</p>	<p>Teacher's Guide Read Me First p. 6 - Hundredth Day Chart Teacher's Guide Read Me First p. 9 - Backpack Bear's Math Games: Count to 100 Teacher's Guide p. 108 - Daily Routines: Number Line (daily) Teacher's Guide p. 115 - Number Bundles Teacher's Guide 100th Day of School Supplement pp. 2-4 - 100th Day of School Activities Starfall.com: Math: "Numbers" Starfall.com: Math: Add & Subtract: "Place Value" Starfall.com: Math: Kindergarten Mathematics Generators: Counting - "Count to 100"</p>

Virginia Standards	Starfall K Math Alignment
<p>K.3 The student will</p> <p>b) count backward orally by ones when given any number between 1 and 10.</p>	<p>Teacher's Guide p. 47 - Introduce Zero Teacher's Guide p. 47 - Count Down From Five Teacher Guide p. 48 - The Zero Song Teacher's Guide p. 92 - A Walk in the Park Teacher's Guide p. 113 - Count Backward to Zero</p>

	<p>Teacher's Guide p. 130 - One Less Teacher's Guide p. 152 - Count Backward Teacher's Guide p. 172 - Dramatize "Ten Bears in the Bed" Teacher's Guide p. 418 - Counting Backward Starfall.com: Math Songs: "Zero Song" and "5 Little Speckled Frogs" Starfall.com: Math: Numbers - 123 "Feed the Animals" and "Count Cookie"</p>
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Virginia Standards	Starfall K Math Alignment
<p>K.3 The student will</p> <p>c) identify the number after, without counting, when given any number between 0 and 100 and identify the number before, without counting, when given any number between 1 and 10.</p>	<p>Teacher's Guide - Daily Routines: Number Line - Unit 1 Teacher's Guide p. 128 - Less Than Teacher's Guide p. 132 - One More Teacher's Guide p. 210 - Before Teacher's Guide p. 212 - After Teacher's Guide p. 220 - Summative Assessment: Writing Numbers Teacher's Guide p. 244 - Number Riddles (More/Less) Teacher's Guide p. 284 - One less Teacher's Guide p. 288 - One Less Teacher's Guide p. 342 - One More/One Less Backpack Bear's Math Workbook 1- p. 17 - Connect the Dots 1-10 Backpack Bear's Math Workbook 1- p. 45 - Connect the Dots: 1-20</p>

Virginia Standards	Starfall K Math Alignment
<p>K.3 The student will</p> <p>d) count forward by tens to determine the total number of objects to 100.</p>	<p>Teacher's Guide <i>Read Me First</i> p. 6 - Hundredth Day Chart Teacher's Guide <i>Read Me First</i> p. 9 - Backpack Bear's Math Games: Count to 100 Teacher's Guide p. 108 - Daily Routines: Number Line Teacher's Guide p. 115 - Number Bundles Teacher's Guide p. 274 - Count by Fives and Tens Teacher's Guide <i>100th Day of School Supplement</i> pp. 2-4 - 100th Day of School Activities Starfall.com: Math: Numbers (100) Starfall.com: Math: Add & Subtract: Place Value Starfall.com: Math: 100th Day Starfall.com: Math: Kindergarten Mathematics Generators: Counting - <i>Count to 100</i></p>

Virginia Standards	Starfall K Math Alignment
<p>K.4 The student will</p>	<p>Teacher's Guide p. 319 - Make a Representation Chart</p>

<p>a) recognize and describe with fluency part-whole relationships for numbers up to 5.</p>	<p>Teacher's Guide p. 321 - Creating Sets of Five Teacher's Guide p. 322 - Creating Equations Teacher's Guide p. 334 - Domino Math Teacher's Guide p. 335 - Sorting Dominos Teacher's Guide p. 335 - Writing Number Sentences Teacher's Guide p. 351 - Introduce Hanger Activity to 5</p>
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Virginia Standards	Starfall K Math Alignment
<p>K.4 The student will</p> <p>b) investigate and describe part-whole relationships for numbers up to 10.</p>	<p>Teacher's Guide p. 338 - Complete Number Sentences Teacher's Guide pp. 340-341 - Combinations of 8 Teacher's Guide p. 343 - Create Combinations of 9 Teacher's Guide p. 352 - Hanger Activity to 10 Teacher's Guide p. 353 - Write Equations for 10 Teacher's Guide p. 400 - Create Addition Problems to 10 Teacher's Guide p. 600 - How Many Make 10? Teacher's Guide pp. 620-621 - Composing and Decomposing Numbers 6-10 <i>Starfall.com:</i> Math: Addition & Subtraction, "Make 10"</p>

Virginia Standards	Starfall K Math Alignment
<p>K.5 The student will investigate fractions by representing and solving practical problems involving equal sharing with two sharers.</p>	<p>Teacher's Guide p. 490 - Demonstrate Equal Parts Teacher's Guide p. 492 - Share Cubes in Groups Teacher's Guide p. 492 - Use Pictures to Solve Problems Teacher's Guide p. 492 - Divide Pennies into Honey Jar Banks Teacher's Guide p. 493 - Whole and Part Teacher's Guide p. 494 - Introduce Fractions Teacher's Guide p. 494 - Equal or Not Equal Teacher's Guide p. 494 - Story Problems Teacher's Guide p. 495 - Introduce the Fraction Sign $\frac{1}{2}$ Teacher's Guide p. 495 - Formative Assessment: Cookie Halves <i>Starfall.com:</i> Geometry and Measurement: Equal Shares & Equal Shares 2 <i>Starfall.com:</i> Math: <i>Division Pizza</i></p>

Strand: Computation and Estimation

Virginia Standards	Starfall K Math Alignment
<p>K.6 The student will model and solve single-step story</p>	<p>Teacher's Guide pp. 377-378 - Using Counters and</p>

<p>and picture problems with sums to 10 and differences within 10, using concrete objects.</p>	<p>Ten-Frames Teacher's Guide pp. 382-383 - Create an Addition Story; Drawing Pictures Teacher's Guide p. 383 - Solve Number Stories Teacher's Guide p. 396 - Story Maps Teacher's Guide pp. 418-419 - Subtraction Practice Teacher's Guide pp. 420-421 - Five Little Teddy Bear Subtraction Teacher's Guide p. 422 - Learning Centers: Add and Subtract Starfall.com: Math: Addition & Subtraction: Addition Intro Starfall.com: Math: Addition & Subtraction: Addition Practice Starfall.com: Math: Addition & Subtraction: Addition Within 10 Starfall.com: Math: Addition & Subtraction: Subtraction Intro Starfall.com: Math: Addition & Subtraction: Subtraction Within 10 Starfall.com: Math: Add & Subtract: Word Problems Starfall.com: Math: Addition & Subtraction: Word Problems</p>
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Strand: Measurement and Geometry

Virginia Standards	Starfall K Math Alignment
<p>K.7 The student will recognize the attributes of a penny, nickel, dime, and quarter and identify the number of pennies equivalent to a nickel, a dime, and a quarter.</p>	<p>Teacher's Guide p. 166 - Introduce the Penny Teacher's Guide p. 167 - Introduce the Penny Rhyme Teacher's Guide p. 171 - Compare Nickel and Penny Teacher's Guide p. 175 - Introduce "Coin Town" Teacher's Guide p. 176 - Color Pennies, Nickels, and Dimes Teacher's Guide p. 177 - "Coin Town" Game Teacher's Guide p. 177 - Coin Concentration Teacher's Guide p. 189 - Money Review Teacher's Guide p. 191 - Which is Worth More? Teacher's Guide p. 624 - Patterns Using Coins Backpack Bear's Math Big Book p. 13 (Penny) Backpack Bear's Math Big Book p. 14 (Nickel) Backpack Bear's Math Big Book p. 15 (Dime) Backpack Bear's Math Big Book p. 16 (Quarter) Starfall.com: Math - "Coin Concentration" Starfall.com: Math - "Coin Sort" Starfall.com: Math - "Help Coin Monkey Find Coins"</p>

Virginia Standards	Starfall K Math Alignment
<p>K.8 The student will investigate the passage of time by reading and interpreting a calendar.</p>	<p>Teacher's Guide p.14 - Calendar Routine Teacher's Guide p. 20 - Calendar Routine Teacher's Guide p. 23 - Calendar Routine Teacher's Guide p. 26 - Calendar Routine</p>

	<p>Teacher's Guide p. 264 - Calendar Routine Teacher's Guide p. 208 - Daily Routines - Calendar Teacher's Guide - Hundredth Day Chart (daily) Teacher's Guide - Daily Routines: Calendar - (Daily - Units 1-14) Backpack Bear's Math Workbook 2- p. 42 - Kinderary Starfall.com: <i>Make a Calendar</i> (Monthly calendars) Starfall.com: Math "Groundhog Day" (Groundhog icon)</p>
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Virginia Standards	Starfall K Math Alignment
<p>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).</p>	<p>Teacher's Guide pp. 28-29 - Introduce Measuring with Rectangles, Match Lengths, Compare Rectangles Teacher's Guide pp. 126-127 - Introduce Measurement Teacher's Guide p. 268 - Taller or Shorter? Teacher's Guide p. 284 - One Less Teacher's Guide p. 285 - One More Backpack Bear's Math Workbook 2- Pg. 33 - Draw it Longer Backpack Bear's Math Workbook 2- Pg. 34 - Lighter/Heavier Backpack Bear's Math Workbook 2- Pg. 35 - Measurement Review Starfall.com: Math: Geometry & Measurement: <i>Measurement</i></p>

Virginia Standards	Starfall K Math Alignment
<p>K.10 The student will</p> <p>a) identify and describe plane figures (circle, triangle, square, and rectangle).</p>	<p>Teacher's Guide pp. 18-19 - Review One, Preview Two (Properties of a circle) Teacher's Guide pp. 21-22 - Preview Three (Properties of a Triangle) Teacher's Guide pp. 24-25 - Preview Four (Properties of a rectangle and square) Teacher's Guide p. 134 - Computer Center Teacher's Guide p. 150 - Identify Shapes in the Environment Teacher's Guide p. 156 - Review Rhombus, Pentagon, Hexagon, and Octagon Teacher's Guide pp. 265-266 - Shape Properties Backpack Bear's Math Big Book p. 4 - Circle Backpack Bear's Math Big Book p. 5 - Triangle Backpack Bear's Math Big Book p. 6 - Rectangle Backpack Bear's Math Big Book p. 7 - Square Starfall.com: Geometry and Measurement: <i>Quadrilaterals</i> Starfall.com: Math: Geometry & Measurement : <i>Polygons</i> Starfall.com: Math: Geometry & Measurement : <i>2D / 3D Sort</i></p>

Virginia Standards	Starfall K Math Alignment
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<p>K.10 The student will</p> <p>b) compare the size (smaller, larger) and shape of plane figures (circle, triangle, square, and rectangle).</p>	<p>Teacher's Guide pp. 28-29 - Introduce Measuring with Rectangles, Match Lengths, Compare Rectangles Teacher's Guide pp. 150-151 - Identify Shapes in the Environment Teacher's Guide p. 156 - Review Rhombus, Pentagon, Hexagon, and Octagon Teacher's Guide pp. 265-266 - Review Properties of a Triangle, Rectangle, Square, and Circle Teacher's Guide p. 268 - Review Two-Dimensional Shapes <i>Starfall.com: Math: Geometry & Measurement : Polygon Sorting</i></p>
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Virginia Standards	Starfall K Math Alignment
<p>K.10 The student will</p> <p>c) describe the location of one object relative to another (above, below, next to) and identify representations of plane figures (circle, triangle, square, and rectangle) regardless of their positions and orientations in space.</p>	<p>Teacher's Guide pp.128-129 - Ordinal Numbers Teacher's Guide pp. 152-153 - Introduce Positional Words Teacher's Guide p. 160 - Summative Assessment: Positional Words Teacher's Guide p. 623 - Position Words Backpack Bear's Math Big Book p. 39 - Where is Backpack Bear? <i>Starfall.com: Math: Geometry & Measurement : Make Shapes</i> <i>Starfall.com: Geometry and Measurement: Puzzles</i></p>

Strand: Probability and Statistics

Virginia Standards	Starfall K Math Alignment
<p>K.11 The student will</p> <p>a) collect, organize, and represent data.</p>	<p>Teacher's Guide p. 37 - Weather Teacher's Guide p. 64 - Weather Teacher's Guide p. 154 - Introduce Graphs Teacher's Guide pp. 154-155 - Create a Graph Teacher's Guide p. 171 - Compare Nickel and Penny Teacher's Guide p. 299 - The Class Predicts Teacher's Guide p. 636 - Graphing Backpack Bear's Math Workbook 1- p. 46 - 3D Shapes - Count and Graph Backpack Bear's Math Workbook 2- p. 49 - Insects - Count and Graph</p>

Virginia Standards	Starfall K Math Alignment
<p>K.11 The student will</p> <p>b) read and interpret data in object graphs, picture graphs, and tables.</p>	<p>Teacher's Guide - Hundredth Day Chart (daily) Teacher's Guide - Weather Routine (daily) Teacher's Guide p. 154 - Introduce Graphs Teacher's Guide p. 154 - Create a Graph Teacher's Guide p. 155 - Formative Assessment: Evaluate Most,</p>

	Least, and Same Teacher's Guide p. 301 - Interpret Results Teacher's Guide p. 636 - Interpreting a Graph
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Strand: Patterns, Functions and Algebra

Virginia Standards	Starfall K Math Alignment
K.12 The student will sort and classify objects according to one attribute.	Teacher's Guide pp.126-127 - Measurement Teacher's Guide pp. 132-133 - Sort by Attribute Teacher's Guide pp. 510-511 - Classroom Size Comparison Teacher's Guide pp. 512-514 - Comparing Surface Area Backpack Bear's Math Workbook 1- p. 47 - 2D and 3D Shape Sorting Backpack Bear's Math Big Book p. 40 - I Can Sort! <i>Starfall.com</i> : Math: Geometry & Measurement: Measurement <i>Starfall.com</i> : Math: Geometry & Measurement: Weight <i>Starfall.com</i> : Geometry and Measurement: Button Sort

Virginia Standards	Starfall K Math Alignment
K.13 The student will identify, describe, extend, create, and transfer repeating patterns.	Teacher's Guide p. 38 - Introduce AB Patterns Teacher's Guide p. 38 - Create AB Patterns Teacher's Guide p. 39 - Formative Assessment: Partner to Create AB Patterns Teacher's Guide p. 44 - Review AB Patterns Teacher's Guide p. 44 - Introduce AABB Patterns Teacher's Guide p. 45 - Bingo Song Teacher's Guide p. 68 - Magic Math Moment: ABC Patterns Teacher's Guide p. 118 - Pattern Review: Review Patterns Teacher's Guide p. 118 - AABB Patterns Teacher's Guide p. 119 - Making Patterns Teacher's Guide p. 119 - Formative Assessment: Backpack Bear's Math Workbook, Page 16 Backpack Bear's Math Workbook 1- p. 11 - I Can Make an AB Pattern Backpack Bear's Math Workbook 1- p. 16 - Making Patterns <i>Starfall.com</i> : Geometry and Measurement: <i>Patterns</i>

*The standards in this document were copied directly from the *Virginia Department of Education Mathematics Standards of Learning Curriculum Framework 2016: Kindergarten*