



Missouri State Kindergarten Math Standards Alignment to Starfall

Number Sense NS

A. Know the number names and the count sequence.

Missouri Standards	Starfall K Math Alignment
Count to 100 by ones and tens.	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 p. 274 - Count by Fives and Tens <i>100th Day of School Supplement</i> pp. 2-4 - Activities for the 100th Day of School <i>Starfall.com: Math: Numbers</i> <i>Starfall.com: Math: Add & Subtract: Place Value</i> <i>Starfall.com: Math: Kindergarten Mathematics Generators: Counting - Count to 100</i>
Count forward beginning from a given number between 1 and 20.	Teacher's Guide p. 64 - Daily Routine: Number Line (daily) Teacher's Guide p. 212 - Counting on from 10-20 Teacher's Guide p. 298 - Counting On Teacher's Guide p. 320 - Counting On from a Given Number Teacher's Guide p. 379 - Counting On Using the Number Line Teacher's Guide p. 546 - Counting on from 10 Teacher's Guide p. 560 - Counting On <i>Starfall.com: Math: Numbers: Train</i>
Count backward from a given number between 10 and 1.	Teacher's Guide p. 47 - Introduce Zero Teacher's Guide p. 47 - Count Down From 5 Teacher Guide p.48 - Zero Song <i>Starfall.com: Math Songs: "Zero Song" & "5 Little Speckled Frogs"</i> <i>Starfall.com: Math: Numbers - 123 "Feed the Animals" and "Count Cookie"</i>

<p>Read and write numerals and represent a number of objects from 0 to 20.</p>	<p>Teacher's Guide pp. 199 - 248 - Unit 5: Troublesome Teens 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 pp. 546-547- Numbers 10-20 Backpack Bear's Math Workbook 1 - Numbers 1 - 20</p>
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B. Understand the relationship between numbers and quantities; connect counting to cardinality.

Missouri Standards	Starfall K Math Alignment
<p>Say the number names when counting objects, in the standard order, pairing each object with one and only one number name and each number name with one and only one object.</p>	<p>Teacher's Guide Read Me First p. 9 - Backpack Bear's Math Games - "Race to 20" Teacher's Guide p. 87 - Using Math Strategies Teacher's Guide p. 92 - Learning Centers: Ways to Represent Numbers Teacher's Guide pp. 109-110 - One-to-One Correspondence and the Number Nine Teacher's Guide pp. 112-113 - The Number Zero Teacher's Guide p. 116 - Formative Assessment Teacher's Guide p. 282 - Seeing Number Patterns <i>Starfall.com: Math: Numbers</i> <i>Starfall.com: Math Songs</i> <i>Starfall.com: Math: Numbers: Count Cookies</i></p>
<p>Demonstrate that the last number name said tells the number of objects counted and the number of objects is the same regardless of their arrangement or the order in which they were counted.</p>	<p>Teacher's Guide pp. 87- 88 - The Number Seven Teacher's Guide p. 120 - Learning Centers: Number Activity Mats Teacher's Guide pp. 318-319 - Number Representations 1-5 Teacher's Guide p. 323 - Match Dominoes to Number Cards Teacher's Guide pp. 323-324 - Number Representations 6-10 <i>Starfall.com: Math: Numbers</i></p>
<p>Demonstrate that each successive number name refers to a quantity that is one larger than the previous number.</p>	<p>Teacher's Guide p. 40 - Daily Routines: Number Line (daily) Teacher's Guide p. 44 - Daily Routines: Hundreds Chart (daily) Teacher's Guide p. 60 - Daily Routines: Place Value (daily) Teacher's Guide p. 81 - Count to Five Teacher's Guide pp. 84-85 - The Number Six <i>Starfall.com: Math: Numbers</i> <i>Starfall.com: Math Songs</i></p>
<p>Recognize, without counting, the quantity of groups up to 5 objects arranged in common patterns.</p>	<p>Teacher's Guide p. 226 - Ten-Frame Flash Game Teacher's Guide p. 318 - Toss the Dice Teacher's Guide p. 336 - Tally Marks Teacher's Guide pp. 354-355 - Arrays up to 20 Teacher's Guide p. 358 - Write That Number Teacher's Guide p. 359 - Create Arrays</p>
<p>Demonstrate that a number can be used to</p>	<p>Teacher's Guide p. 60 - Daily Routines: Number Line - "How</p>

represent "how many" are in a set.	<p>Many Days Have We Been in School?"</p> <p>Teacher's Guide p. 277 - Learning Centers: Race to 20</p> <p>Teacher's Guide pp. 354-356 - Arrays to 20</p> <p>Teacher's Guide pp. 357-359 - Subitizing and Array Review</p> <p>Teacher's Guide p. 360 - Learning Center: Arrays</p>
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C. Compare numbers.

Missouri Standards	Starfall K Math Alignment
Compare two or more sets of objects and identify which set is equal to, more than or less than the other.	<p>Teacher's Guide p. 155 - Evaluate Most, Least, and Same</p> <p>Teacher's Guide pp. 156-158 - Greater Than and Less Than</p> <p>Teacher's Guide pp. 187-188 - Using Ten Frames to Demonstrate More</p> <p>Teacher's Guide p. 189 - Number Line Riddles</p> <p>Teacher's Guide p. 288 - One Less</p> <p>Teacher's Guide p. 342 - One More/One Less</p> <p>Teacher's Guide p. 415 - Pocket Chart Game</p> <p>Teacher's Guide p. 490 - Creating Equal Groups</p> <p>Teacher's Guide p. 633 - How Many More or Less?</p> <p><i>Starfall.com</i>: Math: Greater Than/Less Than</p>
Compare two numerals, between 1 and 10, and determine which is more than or less than the other.	<p>Teacher's Guide p. 128 - Less Than</p> <p>Teacher's Guide p. 132 - One More</p> <p>Teacher's Guide p. 187 - "Thumbs Up/Thumbs Down"</p> <p>Teacher's Guide p. 195 - Learning Centers: Banker, Customer - "High/Low"</p> <p>Teacher's Guide p. 265 - Number Sense</p> <p>Teacher's Guide p. 415 - Mystery Number Game</p> <p><i>Starfall.com</i>: Math: Add & Subtract: Base Ten Practice</p>

Number Sense and Operations in Base Ten NBT

A. Work with numbers 11 -19 to gain foundations for place value.

Missouri Standards	Starfall K Math Alignment
Compose and decompose numbers from 11 to 19 into sets of tens with additional ones.	<p>Teacher's Guide pp. 546-547 - Numbers 10-20</p> <p>Teacher's Guide pp. 548-549 - Recognize Numbers and Sets of 10 to 20</p> <p>Teacher's Guide pp. 550-551 - Teens Practice</p> <p>Teacher's Guide pp. 552-553 - Place Value</p> <p>Teacher's Guide p. 555 - Learning Centers: Summative Assessment</p> <p><i>Starfall.com</i>: Math: Add & Subtract: Place Value</p> <p><i>Starfall.com</i>: Math: Add & Subtract: Addition Within 20</p>

Starfall.com: Math: Add & Subtract: Subtraction: Within 20
Starfall.com: Math: Add & Subtract: Compose/Decompose

Relationships and Algebraic Thinking RA

A. Understand addition as putting together or adding to, and understand subtraction as taking apart or taking from.

Missouri Standards	Starfall K Math Alignment
Represent addition and subtraction within 10.	<p>Teacher’s Guide pp. 377-378 - Using Counters and 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 <i>Starfall.com: Math: Addition & Subtraction: Addition Intro</i> <i>Starfall.com: Math: Addition & Subtraction: Addition Practice</i> <i>Starfall.com: Math: Addition & Subtraction: Addition Within 10</i> <i>Starfall.com: Math: Addition & Subtraction: Subtraction Intro</i> <i>Starfall.com: Math: Addition & Subtraction: Subtraction Within 10</i> <i>Starfall.com: Math: Add & Subtract: Word Problems</i> <i>Starfall.com: Math: Addition & Subtraction: Word Problems Add To: Change Unknown</i></p>
Demonstrate fluency for addition and subtraction within 5.	<p>Teacher’s Guide p. 466 - Addition and Subtraction Equation Cards Teacher’s Guide p. 469 - What’s My Sign? Teacher’s Guide p. 475 - Learning Centers: Flash Card Game Teacher’s Guide p. 622 - Addition Game Day Teacher’s Guide p. 623 - Subtraction Ball Toss Teacher’s Guide p. 625 - Play “What’s the Operation?” Teacher’s Guide pp. 632-633 - Addition and Subtraction <i>Starfall.com: Math: Add & Subtract: Addition Intro</i> <i>Starfall.com: Math: Add & Subtract: Addition Within 10</i> <i>Starfall.com: Math: Add & Subtract: Addition Practice</i> <i>Starfall.com: Math: Add & Subtract: Subtraction Intro</i> <i>Starfall.com: Math: Add & Subtract: Subtraction Within 10</i> <i>Starfall.com: Math: Add & Subtract: Subtraction Practice</i></p>
Decompose numbers less than or equal to 10 in more than one way.	<p>Teacher’s Guide pp. 350 - Number Bonds to 10 Teacher’s Guide pp. 351-352 - Review Number Bonds Teacher Guide p. 353 - Write Equations for Ten Teacher’s Guide p. 377 - Using Counters and Ten-Frames Teacher’s Guide p. 384 - Learning Centers: Shake, Spill, and Add Teacher’s Guide p. 400 - Create Addition Problems to 10 Teacher’s Guide pp. 452-453 - Review Addition</p>

	<p>Teacher's Guide pp. 468-469 - Creating Addition and Subtraction Equations</p> <p>Teacher's Guide pp. 620-621 -Composing and Decomposing Numbers 6-10</p> <p><i>Starfall.com: Math: Add & Subtract: Compose/Decompose Ten and Ones</i></p> <p><i>Starfall.com: Math: Add & Subtract: Math Helper</i></p>
Make 10 for any number from 1 to 9.	<p>Teacher's Guide p. 352 - Hanger Activity to 10</p> <p>Teacher's Guide pp. 374-375 - Introduction to Addition</p> <p>Teacher's Guide pp. 381-383 - Act It Out!</p> <p>Teacher's Guide pp. 453-454 - Ways to Write an Addition Equation/Writing Equations/Solving Addition Equations</p> <p>Teacher's Guide p. 468 - Plus and Minus Game</p> <p>Teacher's Guide p. 474 - Addition and Subtraction Journal Page</p> <p>Teacher's Guide p. 508 - Missing Number</p> <p><i>Starfall.com: Math: Add & Subtract: Math Helpers</i></p> <p><i>Starfall.com: Math: Add & Subtract: Make 10 Numbers</i></p> <p><i>Starfall.com: Math: Make 10 Objects</i></p>

Geometry and Measurement GM

A. Reason with shapes and their attributes.

Missouri Standards	Starfall K Math Alignment
Describe several measurable attributes of objects.	<p>Teacher's Guide pp. 126-127 - Measurement</p> <p>Teacher's Guide pp. 132-133 - Sort by Attribute</p> <p>Teacher's Guide pp. 508-509 - Measure Distance</p> <p>Teacher's Guide pp. 510-511- Classroom Size Comparison</p> <p>Teacher's Guide pp. 512-514 - Comparing Surface Area</p> <p><i>Starfall.com: Math: Geometry & Measurement: Measurement</i></p> <p><i>Starfall.com: Math: Geometry & Measurement: Weight</i></p>
Compare the measurable attributes of two objects.	<p>Teacher's Guide pp. 28-29 - Introduce Measuring with Rectangles, Match Lengths, Compare Rectangles</p> <p>Teacher's Guide pp. 126 - 127 - Introduce Measurement</p> <p>Teacher's Guide p. 268 - Taller or Shorter?</p> <p>Teacher's Guide p. 284 - One Less</p> <p>Teacher's Guide p. 285 - One More</p> <p><i>Starfall.com: Math: Geometry & Measurement: Measurement</i></p>

B. Work with time and money.

Missouri Standards	Starfall K Math Alignment
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<p>Demonstrate an understanding of concepts of time and devices that measure time.</p>	<p>Teacher's Guide p. 583 - Which Measuring Tool Would I Use? Teacher's Guide p. 586 - Numbers on a Clock Teacher's Guide p. 589 - Hands of a Clock/Different Types of Clocks Teacher's Guide p. 590 - Hands on the Clock Teacher's Guide p. 593 - Summative Assessment <i>Starfall.com</i>: - Geometry & Measurement: Time <i>Starfall.com</i>: Math Songs: "The Time Song"</p>
<p>Name the days of the week.</p>	<p>Teacher's Guide p. 17 - Calendar Routine Teacher's Guide p. 20 - Calendar Routine Teacher's Guide p. 23 - Calendar Routine Teacher's Guide p. 26 - Calendar Routine Teacher's Guide p. 34 - Calendar Routine Teacher's Guide p. 37 - Calendar Routine Teacher's Guide p. 40 - Calendar Routine Teacher's Guide p. 43 - Calendar Routine Teacher's Guide p. 46 - Calendar Routine Teacher's Guide - Calendar Routine (daily) <i>Starfall.com</i>: Calendar Icon <i>Starfall.com</i>: Math Songs: "Today is Monday" and "The Time Song"</p>
<p>Identify pennies, nickels, dimes and quarters.</p>	<p>Teacher's Guide p. 166 - Introduce the Penny Teacher's Guide p. 167 - Introduce the Penny Rhyme Teacher's Guide p. 169 - Introduce the Nickel Teacher's Guide p. 170 - Examine the Nickel Teacher's Guide p. 171 - Compare Nickel and Penny Teacher's Guide p. 172 - Introduce a Dime Teacher's Guide p. 173 - Examine the Dime Teacher's Guide p. 174 - Partner Share 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. 192 - Solving Addition Equations Using Money Teacher's Guide p. 193 - Demonstrate Story Problems Teacher's Guide p. 471 - Adding and Subtracting with Money Teacher's Guide p. 624 - Patterns Using Coins <i>Starfall.com</i>: Math - "Coin Concentration" <i>Starfall.com</i>: Math - "Coin Sort"</p>

C. Analyze squares, circles, triangles, rectangles, hexagons, cubes, cones, cylinders and spheres.

Missouri Standards	Starfall K Math Alignment
Identify shapes and describe objects in the	Teacher's Guide pp. 18-19 - Review One, Preview Two

environment using names of shapes, recognizing the name stays the same regardless of orientation or size.	(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 pp. 265-266 - Shape Properties <i>Starfall.com: Math - Geometry and Measurement: Triangles & Make Shapes</i> <i>Starfall.com: Math - Geometry and Measurement: Puzzles</i> <i>Starfall.com: Math - Geometry and Measurement: 2D/3D Shapes</i>
Describe the relative positions of objects in space.	Teacher's Guide pp.128-129 - Ordinal Numbers Teacher's Guide pp. 152-153 - Introduce Positional Words Teacher's Guide p. 160 - Positional Words Teacher's Guide p. 623 - Position Words
Identify and describe the attribute of shapes, and use the attributes to sort a collection of shapes.	Teacher's Guide p. 132 - Sort by Attributes Teacher's Guide p. 133 - Formative Assessment: Different Way to Sort Teacher's Guide p. 134 - Learning Centers : Sorting Objects Teacher's Guide p. 134 - Computer Center
Draw or model simple two-dimensional shapes	Teacher's Guide p. 151 - Draw Shapes Teacher's Guide p. 267 - Draw Shapes with Shaving Cream Teacher's Guide p. 276 - Learning Centers: Play Dough Shape Town Teacher's Guide p. 297 - Draw Shapes Teacher's Guide p. 304 - Learning Centers: Play Dough 3-D Shapes Teacher's Guide p. 304 - Learning Centers: Constructing 3-D Shapes
Compose simple shapes to form larger shapes using manipulatives.	Teacher's Guide p. 134 - Computer Center Teacher's Guide pp. 265-266 - Shape Properties Teacher's Guide p. 273 - Cubes and Rectangular Prisms <i>Starfall.com: Math: Geometry and Measurement: Triangles & Make Shapes</i> <i>Starfall.com: Math: Geometry and Measurement: Puzzles</i>

Data and Statistics DS

A. Classify objects and count the number of objects in each category.

Missouri Standards	Starfall K Math Alignment
Classify objects into given categories; count the number of objects in each category.	Teacher's Guide pp. 36-37 - Explore Shapes Teacher's Guide pp. 41-42 - Introduce Octagon and Review 2D

	<p>Shapes Teacher's Guide pp. 132-133 - Sort By Attribute Teacher's Guide p. 134 - Learning Centers: Sorting Objects Teacher's Guide pp. 288-289 - 3-D Shape Museum Day Teacher's Guide p. 290 - Sorting Shapes Teacher's Guide p. 624 - Pattern Using Coins Starfall.com: Math: Geometry & Measurement: Button Sor</p>
<p>Compare category counts using appropriate language.</p>	<p>Teacher's Guide p. 130 - One Less Teacher's Guide p. 155 - Evaluate Most, Least, and Same Teacher's Guide p. 156 - Introduce Greater Than and Less Than Teacher's Guide p. 158 - Use Five-Frames Teacher's Guide p. 190 - Equivalent Coins Teacher's Guide p. 289 - Sort Items Into Groups</p>

***The standards in this document were copied directly from the *Missouri Department of Elementary and Secondary Education*.**