



Minnesota State Kindergarten Math Standards Alignment to Starfall

1. Number and Operation

Standard 1: Understand the relationship between quantities and whole numbers up to 31.

Minnesota Standards	Starfall K Math Alignment
<p>K.1.1.1 1. Recognize that a number can be used to represent how many objects are in a set or to represent the position of an object in a sequence. <i>For example: Count students standing in a circle and count the same students after they take their seats. Recognize that this rearrangement does not change the total number, but may change the order in which students are counted.</i></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 Starfall.com: Math: Numbers</p>
<p>K.1.1.2 2. Read, write, and represent whole numbers from 0 to at least 31. Representations may include numerals, pictures, real objects and picture graphs, spoken words, and manipulatives such as connecting cubes. <i>For example: Represent the number of students taking hot lunch with tally marks.</i></p>	<p>Daily Routines - (beginning of each week for Units 1-14) Teacher's Guide p. 62 - Introduce the Number One; Introduce Backpack Bear's Workbook #1; Discriminate the Numeral One; Show One; Write the Numeral One Teacher's Guide p. 63 - Formative Assessment: Draw Representations of the Number One Teacher's Guide p. 65 - Introduce the Number Two; Starfall.com; Discriminate the Numeral Two; Show Two; Write the Number Two Teacher's Guide p. 68 - The Number Three: Math Bag Objects Teacher's Guide p. 69 - Introduce the Number Three; Find Threes; Starfall.com; Formative Assessment: Draw Representations of the Number Three Teacher's Guide p.72 - Introduce the Number Four; Find Fours; Starfall.com; Formative Assessment: Draw Representations of the Number Four Teacher's Guide pp. 81-82 - Introduce the Number 5; Review Partner Sharing and Finding Fives; Formative Assessment: Backpack Bear's Math Workbook, Page 7 Teacher's Guide pp. 84-85 - Introduce the Number Six;</p>

	<p>Play “Find the Hexagon; Find Sixes; Formative Assessment: Backpack Bear’s Math Workbook, Page 8 Teacher’s Guide pp. 87-88 - Introduce the Number Seven; Seven Hunt; Find Sevens; Starfall.com; Formative Assessment: Backpack Bear’s Math Workbook, Page 10 Teacher’s Guide pp.109-110 - Introduce the Number Line; Introduce One-to-One Correspondence; Find Nines; Formative Assessment: Backpack Bear’s Math Workbook, Page 13 Teacher’s Guide pp. 115-116 - Introduce the Number Ten; Formative Assessment: Backpack Bear’s Math Workbook, Page 15 Teacher’s Guide pp. 215 - 216 - Representations of 11; The Number 11; Formative Assessment: Number Boxes for 11 Teacher’s Guide pp. 217 - 218 -Representations of 12; The Number 12; Formative Assessment: Number Boxes for 12 Teacher’s Guide p. 227: Introduce 13; The Number 13; Formative Assessment: Number Boxes for 13 Teacher’s Guide p. 229: Introduce 14; The Number 14; Formative Assessment: Number Boxes for 14 Teacher’s Guide p. 231 - Introduce 15; The Number 15; Formative Assessment: Number Boxes for 15 Teacher’s Guide p. 233 - The Number 16; Formative Assessment: Number Boxes for 16 Teacher’s Guide pp. 240-241 - Introduce 17; The Number 17; Formative Assessment: Number Boxes for 17 Teacher’s Guide pp. 242 - 243 - Number Concentration; Introduce 18; The Number 18; Formative Assessment: Number Boxes for 18 Teacher’s Guide p. 245 - Introduce 19; The Number 19; Formative Assessment: Number Boxes for 19 Teacher’s Guide pp. 246-247 - Introduce 20; The Number 20; Formative Assessment: Number Boxes for 20; Introduce the Bingo Game</p>
<p>K.1.1.3 3. Count, with and without objects, forward and backward to at least 20.</p>	<p>Forward: 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. 64 - Daily Routine: Number Line (daily) Teacher’s Guide p. 108 - Daily Routines: Number Line (daily) Teacher’s Guide p. 212 - Counting on from 10-20 Teacher’s Guide p. 274 - Count by Fives and Tens 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 Starfall.com: Math: <i>Numbers</i> Starfall.com: Math: Add & Subtract: Place Value</p>

	<p>Starfall.com: Math: Kindergarten Mathematics Generators: Counting - Count to 100 100th Day of School Supplement pp. 2-4 - 100th Day of School Activities Starfall.com: Math: Numbers: Train Backward: Teacher’s Guide p. 47 - Introduce Zero Teacher’s Guide p. 47 - Count Down From 5 Teacher Guide p.48 - Zero Song Starfall.com: Math Songs: “Zero Song” & “5 Little Speckled Frogs” Starfall.com: Math: Numbers - 123 “Feed the Animals” and “Count Cookie”</p>
<p>K.1.1.4 4. Find a number that is 1 more or 1 less than a given number.</p>	<p>Teacher’s Guide p. 128 - Less Than Teacher’s Guide p. 132 - One More Teacher’s Guide p. 288 - One Less Teacher’s Guide p. 342 - One More/One Less</p>
<p>K.1.1.5 5. Compare and order whole numbers, with and without objects, from 0 to 20. For example: Put the number cards 7, 3, 19 and 12 in numerical order.</p>	<p>Teacher’s Guide p. 380 - Making a Large Number Line Teacher’s Guide p. 561 - Formative Assessment: Calendar Questions Teacher’s Guide p. 583 - Index Card Sequence Activity</p>

Standard 2: Use objects and pictures to represent situations involving combining and separating.

Minnesota Standards	Starfall K Math Alignment
<p>K.1.2.1 1. Use objects and draw pictures to find the sums and differences of numbers between 0 and 10.</p>	<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 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</p>

	Starfall.com: Math: Addition & Subtraction: Word Problems Add To: Change Unknown
K.1.2.2 2. Compose and decompose numbers up to 10 with objects and pictures. <i>For example: A group of 7 objects can be decomposed as 5 and 2 objects, or 2 and 3 and 2, or 6 and 1.</i>	Teacher's Guide p. 350 - Number Bonds to 10 Teacher's Guide pp. 351-352 - Review Number Bonds Teacher's 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 Teacher's Guide pp. 468-469 - Creating Addition and Subtraction Equations Teacher's Guide pp. 620-621 -Composing and Decomposing Numbers 6-10 Starfall.com: Math: Add & Subtract: Compose/Decompose Tens and Ones Starfall.com: Math: Add & Subtract: Math Helpers

2. Algebra

Standard 1: Recognize, create, complete, and extend patterns.

Minnesota Standards	Starfall K Math Alignment
K.2.1.1 1. Identify, create, complete, and extend simple patterns using shape, color, size, number, sounds and movements. Patterns may be repeating, growing or shrinking such as ABB, ABB, ABB or ●,●●,●●●.	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

3. Geometry and Measurement

Standard 1: Recognize and sort basic two- and three-dimensional shapes; use them to model real-world objects.

Minnesota Standards	Starfall K Math Alignment
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<p>K.3.1.1 1. Recognize basic two- and three-dimensional shapes such as squares, circles, triangles, rectangles, trapezoids, hexagons, cubes, cones, cylinders and spheres.</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 pp. 265-266 - Shape Properties Teacher’s Guide pp. 268-269 - Introduce Cube Teacher’s Guide pp. 271-273 - Introduce the Rectangular Prism Teacher’s Guide pp. 274-275 - Introduce the Cone Teacher’s Guide pp. 282-283 - Introduce the Cylinder Teacher’s Guide p. 284 -Introduce the Sphere Teacher’s Guide pp. 286-287 - Introduce the Square Pyramid Starfall.com: Math - Geometry and Measurement: Triangles & Make Shapes Starfall.com: Math - Geometry and Measurement: Puzzles Starfall.com: Math - Geometry and Measurement: 2D/3D Shapes</p>
<p>K.3.1.2 2. Sort objects using characteristics such as shape, size, color and thickness.</p>	<p>Teacher’s Guide p. 132- Introduce Attributes Teacher’s Guide p. 132 - Sorting by Attributes Teacher’s Guide p. 133 - Different Ways to Sort Teacher’s Guide p. 134 - Learning Centers: Sorting Objects</p>
<p>K.3.1.3 3. Use basic shapes and spatial reasoning to model objects in the real-world. <i>For example: A cylinder can be used to model a can of soup. Another example: Find as many rectangles as you can in your classroom. Record the rectangles you found by making drawings.</i></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 pp. 265-266 - Shape Properties Teacher’s Guide pp. 268-269 - Introduce Cube Teacher’s Guide pp. 271-273 - Introduce the Rectangular Prism Teacher’s Guide pp. 274-275 - Introduce the Cone Teacher’s Guide pp. 282-283 - Introduce the Cylinder Teacher’s Guide p. 284 -Introduce the Sphere Teacher’s Guide pp. 286-287 - Introduce the Square Pyramid Starfall.com: Math - Geometry and Measurement: Triangles & Make Shapes Starfall.com: Math - Geometry and Measurement: Puzzles Starfall.com: Math - Geometry and Measurement: 2D/3D Shapes</p>

Standard 2: Compare and order objects according to location and measurable attributes.

Minnesota Standards	Starfall K Math Alignment
<p>K.3.2.1 1. Use words to compare objects according to length, size, weight and position. <i>For example: Use same, lighter, longer, above, between and next to. Another example: Identify objects that are near your desk and objects that are in front of it. Explain why there may be some objects in both groups.</i></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 pp.128-129 - Ordinal Numbers Teacher’s Guide pp. 152-153 - Introduce Positional Words Teacher’s Guide p. 268 - Taller or Shorter? Teacher’s Guide p. 284 - One Less Teacher’s Guide p. 285 - One More Teacher’s Guide p. 160 - Positional Words Teacher’s Guide p. 623 - Position Words Starfall.com: Math: Geometry & Measurement: Measurement</p>
<p>K.3.2.2 2. Order 2 or 3 objects using measurable attributes, such as length and weight.</p>	<p>Teacher’s Guide pp. 126-127 - Measurement Teacher’s Guide pp. 132-133 - Sort by Attribute Teacher’s Guide pp. 508-509 - Measure Distance Teacher’s Guide pp. 510-511- Classroom Size Comparison Teacher’s Guide pp. 512-514 - Comparing Surface Area Starfall.com: Math: Geometry & Measurement: Measurement Starfall.com: Math: Geometry & Measurement: Weight</p>

*The standards in this document were copied directly from *Minnesota Academic Standards in Mathematics: Kindergarten*.