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To the
**Minnesota Academic Standards
Mathematics - Kindergarten**

2007 Version

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to the Minnesota Academic Standards Mathematics 1, 2007 Version**

<p align="center">Minnesota Academic Standards Mathematics – Kindergarten 2007 Version</p>	<p align="center">enVisionmath2.0, ©2016 Kindergarten Lesson</p>
<p>Number & Operation</p>	
<p>Understand the relationship between quantities and whole numbers up to 31.</p>	
<p>K.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.</p>	<p>SE/TE: 1-1 Count 1, 2, and 3, 1-2 Recognize 1, 2, and 3 in Different Arrangements, 1-3 Read and Write 1, 2, and 3, 1-4 Count 4 and 5, 1-5 Recognize 4 and 5 in Different Arrangements, 1-6 Read and Write 4 and 5, 1-7 Identify the Number 0, 1-8 Read and Write 0, 1-10 Count Numbers to 5, 1-11 Math Practices and Problem Solving: Construct Arguments, 2-4 Compare Groups to 5 by Counting, 3-1 Count 6 and 7, 3-2 Read and Write 6 and 7, 3-3 Count 8 and 9, 3-4 Read and Write 8 and 9, 3-5 Count 10, 3-6 Read and Write 10, 3-8 Math Practices and Problem Solving: Look For and Use Structure, 5-2 Count the Number of Objects in Each Category, 5-3 Sort the Categories by Counting, 5-4 Math Practices and Problem Solving: Critique Reasoning, 9-1 Count and Write 11 and 12, 9-2 Count and Write 13, 14, and 15, 9-3 Count and Write 16 and 17, 9-4 Count and Write 18, 19, and 20, 9-6 Count to Find How Many, 9-7 Math Practices and Problem Solving: Reasoning, 10-1 Make 11, 12, and 13, 10-2 Make 14, 15, and 16, 10-3 Make 17, 18, and 1</p>
<p>K.1.1.2 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.</p>	<p>SE/TE: 1-3 Read and Write 1, 2, and 3, 1-6 Read and Write 4 and 5, 1-7 Identify the Number 0, 1-8 Read and Write 0, 1-11 Math Practices and Problem Solving: Construct Arguments, 2-4 Compare Groups to 5 by Counting, 3-2 Read and Write 6 and 7, 3-6 Read and Write 10, 3-8 Math Practices and Problem Solving: Look For and Use Structure, 6-1 Explore Addition, 6-2 Represent Addition as Adding To, 6-3 Represent Addition as Putting Together, 6-4 Use the Plus Sign, 6-5 Represent and Explain Addition with Equations, 6-6 Continue to Represent and Explain Addition with Equations, 6-7 Solve Addition Word Problems: Add To, 6-8 Solve Addition Word Problems: Put Together, 6-9 Use Patterns to Develop Fluency in Addition, 6-10 Math Practices and Problem Solving: Model with Math,</p>

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<p>(Continued) K.1.1.2 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.</p>	<p>7-1 Explore Subtraction, 7-2 Represent Subtraction as Taking Apart, 7-3 Represent Subtraction as Taking From, 7-4 Use the Minus Sign, 7-5 Represent and Explain Subtraction with Equations, 7-6 Continue to Represent and Explain Subtraction with Equations, 7-7 Solve Subtraction Word Problems: Take From, 7-8 Use Patterns to Develop Fluency in Subtraction, 7-9 Math Practices and Problem Solving: Use Appropriate Tools, 8-1 Decompose and Represent Numbers to 5, 8-2 Related Facts, 8-3 Math Practices and Problem Solving: Reasoning, 8-4 Fluently Add and Subtract to 5, 8-5 Decompose and Represent Numbers 6 and 7, 8-6 Decompose and Represent Numbers 8 and 9, 8-7 Decompose and Represent 10, 8-8 Solve Word Problems: Both Addends Unknown, 8-9 Find the Missing Part of 10, 8-10 Continue to Find the Missing Part of 10, 9-1 Count and Write 11 and 12, 9-2 Count and Write 13, 14, and 15, 9-3 Count and Write 16 and 17, 9-4 Count and Write 18, 19, and 20, 10-1 Make 11, 12, and 13, 10-2 Make 14, 15, and 16, 10-3 Make 17, 18, and 19, 10-4 Find Parts of 11, 12, and 13, 10-5 Find Parts of 14, 15, and 16, 10-6 Find Parts of 17, 18, and 19, 10-7 Math Practices and Problem Solving: Look For and Use Structure</p>
<p>K.1.1.3 Count, with and without objects, forward and backward to at least 20.</p>	<p>SE/TE: 1-1 Count 1, 2, and 3, 1-3 Read and Write 1, 2, and 3, 1-4 Count 4 and 5, 1-6 Read and Write 4 and 5, 1-10 Count Numbers to 5, 1-11 Math Practices and Problem Solving: Construct Arguments, 3-1 Count 6 and 7, 3-2 Read and Write 6 and 7, 3-3 Count 8 and 9, 3-4 Read and Write 8 and 9, 3-5 Count 10, 3-6 Read and Write 10, 4-5 Count Numbers to 10, 4-6 Math Practices and Problem Solving: Repeated Reasoning, 9-1 Count and Write 11 and 12, 9-2 Count and Write 13, 14, and 15, 9-3 Count and Write 16 and 17, 9-4 Count and Write 18, 19, and 20, 9-5 Count Forward from Any Number to 20, 9-6 Count to Find How Many,</p>

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<p>(Continued) K.1.1.3 Count, with and without objects, forward and backward to at least 20.</p>	<p>9-7 Math Practices and Problem Solving: Reasoning, 10-1 Make 11, 12, and 13, 10-2 Make 14, 15, and 16, 10-3 Make 17, 18, and 19, 11-1 Count Using Patterns to 30, 11-2 Count Using Patterns to 50, 11-3 Count by Tens to 100, 11-4 Count by Tens and Ones, 11-5 Count Forward from Any Number to 100, 11-6 Count Using Patterns to 100, 11-7 Math Practices and Problem Solving: Look For and Use Structure</p>
<p>K.1.1.4 Find a number that is 1 more or 1 less than a given number.</p>	<p>SE/TE: 4-5 Count Numbers to 10, 4-6 Math Practices and Problem Solving: Repeated Reasoning, 9-5 Count Forward from Any Number to 20</p>
<p>K.1.1.5 Compare and order whole numbers, with and without objects, from 0 to 20.</p>	<p>SE/TE: 2-1 Equal Groups , 2-2 Greater Than, 2-3 Less Than, 2-4 Compare Groups to 5 by Counting, 2-5 Compare Numbers to 5, 2-6 Math Practices and Problem Solving: Model with Math, 4-1 Compare Groups to 10, 4-2 Compare Numbers Using Numerals to 10, 4-3 Compare Groups to 10 by Counting, 4-4 Compare Numbers to 10, 4-5 Count Numbers to 10, 5-3 Sort the Categories by Counting, 5-4 Math Practices and Problem Solving: Critique Reasoning, 9-7 Math Practices and Problem Solving: Reasoning</p>
<p>Use objects and pictures to represent situations involving combining and separating.</p>	
<p>K.1.2.1 Use objects and draw pictures to find the sums and differences of numbers between 0 and 10.</p>	<p>SE/TE: 1-9 Ways to Make 5, 3-7 Ways to Make 10, 3-8 Math Practices and Problem Solving: Look For and Use Structure, 6-1 Explore Addition, 6-2 Represent Addition as Adding To, 6-3 Represent Addition as Putting Together, 6-4 Use the Plus Sign, 6-5 Represent and Explain Addition with Equations, 6-6 Continue to Represent and Explain Addition with Equations, 6-7 Solve Addition Word Problems: Add To, 6-8 Solve Addition Word Problems: Put Together, 6-9 Use Patterns to Develop Fluency in Addition, 6-10 Math Practices and Problem Solving: Model with Math, 7-1 Explore Subtraction, 7-2 Represent Subtraction as Taking Apart, 7-3 Represent Subtraction as Taking From, 7-4 Use the Minus Sign,</p>

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<p>(Continued) K.1.2.1 Use objects and draw pictures to find the sums and differences of numbers between 0 and 10.</p>	<p>7-5 Represent and Explain Subtraction with Equations, 7-6 Continue to Represent and Explain Subtraction with Equations, 7-7 Solve Subtraction Word Problems: Take From, 7-8 Use Patterns to Develop Fluency in Subtraction, 7-9 Math Practices and Problem Solving: Use Appropriate Tools, 8-1 Decompose and Represent Numbers to 5, 8-2 Related Facts, 8-3 Math Practices and Problem Solving: Reasoning, 8-4 Fluently Add and Subtract to 5, 8-5 Decompose and Represent Numbers 6 and 7, 8-6 Decompose and Represent Numbers 8 and 9, 8-7 Decompose and Represent 10, 8-8 Solve Word Problems: Both Addends Unknown, 8-9 Find the Missing Part of 10, 8-10 Continue to Find the Missing Part of 10</p>
<p>K.1.2.2 Compose and decompose numbers up to 10 with objects and pictures.</p>	<p>SE/TE: 1-9 Ways to Make 5, 3-7 Ways to Make 1, 3-8 Math Practices and Problem Solving: Look For and Use Structure, 6-8 Solve Addition Word Problems: Put Together, 6-9 Use Patterns to Develop Fluency in Addition, 7-2 Represent Subtraction as Taking Apart, 7-3 Represent Subtraction as Taking From, 7-8 Use Patterns to Develop Fluency in Subtraction, 8-1 Decompose and Represent Numbers to 5, 8-2 Related Facts, 8-5 Decompose and Represent Numbers 6 and 7, 8-6 Decompose and Represent Numbers 8 and 9, 8-7 Decompose and Represent 10, 8-8 Solve Word Problems: Both Addends Unknown, 8-9 Find the Missing Part of 10, 8-10 Continue to Find the Missing Part of 10, 10-1 Make 11, 12, and 13, 10-2 Make 14, 15, and 16, 10-3 Make 17, 18, and 19, 10-5 Find Parts of 14, 15, and 16, 10-6 Find Parts of 17, 18, and 19, 10-7 Math Practices and Problem Solving: Look For and Use Structure</p>

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Algebra	
Recognize, create, complete, and extend patterns	
K.2.1.1 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 x, xx, xxx.	SE/TE: 7-8 Use Patterns to Develop Fluency in Subtraction, 11-1 Count Using Patterns to 30, 11-2 Count Using Patterns to 50, 11-3 Count by Tens to 100, 11-4 Count by Tens and Ones, 11-5 Count Forward from Any Number to 100, 11-6 Count Using Patterns to 100, 11-7 Math Practices and Problem Solving: Look For and Use Structure
Geometry & Measurement	
Recognize and sort basic two- and three-dimensional shapes; use them to model real-world objects.	
K.3.1.1 Recognize basic two- and three-dimensional shapes such as squares, circles, triangles, rectangles, trapezoids, hexagons, cubes, cones, cylinders and spheres.	SE/TE: 12-1 Two-Dimensional (2-D) and Three-Dimensional (3-D) Shapes, 12-2 Circles and Triangles, 12-3 Squares and Other Rectangles, 12-4 Hexagons, 12-5 Solid Figures, 12-6 Describe Shapes in the Environment, 13-1 Analyze and Compare Two-Dimensional (2-D) Shapes, 13-2 Analyze and Compare Three-Dimensional (3-D) Shapes, 13-3 Compare 2-D and 3-D Shapes, 13-4 Math Practices and Problem Solving: Make Sense and Persevere, 13-5 Make 2-D Shapes from Other 2-D Shapes, 13-6 Build 2-D Shapes, 13-7 Build 3-D Shapes
K.3.1.2 Sort objects using characteristics such as shape, size, color and thickness.	SE/TE: 5-1 Classify Objects into Categories, 5-2 Count the Number of Objects in Each Category, 5-3 Sort the Categories by Counting, 5-4 Math Practices and Problem Solving: Critique Reasoning, 12-1 Two-Dimensional (2-D) and Three-Dimensional (3-D) Shapes, 12-2 Circles and Triangles, 12-3 Squares and Other Rectangles, 12-4 Hexagons, 12-5 Solid Figures, 12-6 Describe Shapes in the Environment, 12-8 Math Practices and Problem Solving: Precision, 13-1 Analyze and Compare Two-Dimensional (2-D) Shapes, 13-2 Analyze and Compare Three-Dimensional (3-D) Shapes, 13-3 Compare 2-D and 3-D Shapes, 13-4 Math Practices and Problem Solving: Make Sense and Persevere

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K.3.1.3 Use basic shapes and spatial reasoning to model objects in the real-world.	SE/TE: 12-6 Describe Shapes in the Environment, 12-7 Describe the Position of Shapes in the Environment, 12-8 Math Practices and Problem Solving: Precision
Compare and order objects according to location and measurable attributes	
K.3.2.1 Use words to compare objects according to length, size, weight and position.	SE/TE: 12-7 Describe the Position of Shapes in the Environment, 12-8 Math Practices and Problem Solving: Precision, 14-1 Compare by Length and Height, 14-2 Compare by Capacity, 14-3 Compare by Weight, 14-4 Describe Objects by Attributes, 14-5 Describe Objects by Measurable Attributes, 14-6 Math Practices and Problem Solving: Precision
K.3.2.2 Order 2 or 3 objects using measurable attributes, such as length and weight.	SE/TE: 14-1 Compare by Length and Height, 14-2 Compare by Capacity, 14-3 Compare by Weight, 14-4 Describe Objects by Attributes, 14-5 Describe Objects by Measurable Attributes, 14-6 Math Practices and Problem Solving: Precision

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