



Kindergarten Math Course Curriculum Guide

Course Name: Kindergarten Math

Grade Level (s): 5K

Course Description:

Kindergarten grade math focuses on the following skills and concepts:

- Counting to 100 by 1s and 10s; counting with one-to-one correspondence and cardinality within 20
- Reading and writing numbers to 20; representing sets with written numerals
- Comparing sets of up to 10 objects using the language of *greater than*, *less than*, and *equal to*
- Understanding teen numbers as 10 and some more
- Representing and solving join, separate, and part-part-whole situations within 10 using objects, fingers, words, actions, drawings, numbers, and equations
- Building fluency with addition and subtraction facts to 5, and developing strategies for solving combinations to 10
- Identifying measurable attributes of objects; comparing objects by length or by weight
- Identifying, describing, comparing, sorting, and patterning two- and three-dimensional shapes

Instruction in many of these areas takes place over two or more units. Students need extended experiences with concepts over time to develop deep mathematical understandings. The continual development of content throughout Bridges units and Number Corner workouts follows a careful and intentional progression of instruction. This progression ensures that students review and extend prior learning, develop the concepts and skills for the grade level, and acquire foundations for their future learning.

[SDWD Essential Learning Standards](#)
[Wisconsin State Standards for Mathematics](#)
[Achieve the Core Major Work of Kindergarten Grade](#)

Unit Outlines:

Unit	Major Topics
Unit 1 Numbers to 5 and 10	<ul style="list-style-type: none">• Sorting shoes• Friendly 5s• Friendly 10s• Using structures and patterns
Unit 2 Numbers to 10	<ul style="list-style-type: none">• Dots to 10• Introducing the number rack• Five and some more• Composing and decomposing shapes

Unit 3 Bikes and Bugs: Double, Add and Subtract	<ul style="list-style-type: none"> • Exploring doubles • Adding and subtracting 1 • Add, subtract and double • Exploring numbers through 10
Unit 4 Paths to Adding, Subtracting and Measuring	<ul style="list-style-type: none"> • The number path • Counting, adding and subtracting • Comparing and measuring length • Fives and ones with money
Unit 5 Two-Dimensional Geometry	<ul style="list-style-type: none"> • Exploring shapes • Sorting, counting and comparing shapes • Constructing and drawing shapes • Sorting, comparing, composing and decomposing shapes
Unit 6 Three-Dimensional Shapes and Numbers Beyond 10	<ul style="list-style-type: none"> • Three-dimensional shapes • Exploring teen numbers • Combinations to 10
Unit 7 Measurement and Teen Numbers	<ul style="list-style-type: none"> • How heavy? How long? • Numbers from 10 to 20 • Addition and subtraction problem situations • Counting by 10s and 1s
Unit 8 Optional	<ul style="list-style-type: none"> • STEM - Computing and Measuring with Frogs and Bugs

Mathematical Practices:

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.

Textbook/Other Resources:

Bridges in Mathematics/Number Corner 3rd Edition
 Building Fact Fluency Toolkit
 iReady mathematical lessons