



### Grade 3

Bridges in Mathematics Grade 3 invites children to explore, test, discuss, and apply mathematical concepts. Students use a variety of manipulatives and models to make sense of basic fact strategies, place value, multiplication and division, fractions, probability, data analysis, and 2- and 3-dimensional geometry. A culminating unit about bridge construction prompts students to apply many of the skills developed throughout the year. Work Place games and activities provide the differentiated practice needed to reinforce concepts and skills introduced during whole-group instruction. The Number Corner insures that children have consistent practice with key math skills, and Home Connections help families take an active role in students' math education. Word Resource cards and journals help students master new terms and practice mathematical communication. A variety of constructed response assessments are offered throughout the year, and all units include pre- and post-assessments.



### Bridges in Mathematics

Bridges in Mathematics is a full elementary school curriculum that provides the tools, strategies, and materials teachers need to implement the NCTM standards. Bridges aligns with NCTM Focal Points, blending concept development and skills practice in a coherent and well articulated curriculum.

Bridges is comprised of two parts: the units and Number Corner. Each unit focuses on a specific mathematical topic, or related topics, and is comprised of a series of hour-long sessions. Number Corner is a calendar-based component of Bridges that consists of 15–20 minute daily workouts focusing on building and reviewing key skills. The curriculum spirals through the content strands, revisiting key skills and concepts in a variety of ways at different times over the course of the school year and across grade levels.

Lessons incorporate whole-group, small group, and independent work, providing students a wide range of activities and experiences. Students discuss and explore different approaches to problems, often using manipulatives to construct and test ideas as they build meaning and fluency.



**I've worked for years to establish a learning climate in my classroom where students share ideas, really listen to one another, and work together to solve problems. This program has given me the steps to make that dream a reality.**

— Grade 3 Teacher  
Kodiak, AK

# Grade 3 Scope & Sequence by Month

		AUGUST / SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY / JUNE
3	Units	<b>UNIT 1: 20 SESSIONS</b> <b>Computation, Algebraic Thinking &amp; Probability</b> Constructing and Interpreting Graphs, Sorting, Patterns and Functions, Addition and Subtraction Facts to 20, Estimating and Measuring Length, Exploring Probability  <b>Literature Connection</b> If You Hopped Like a Frog	<b>UNIT 2: 30 SESSIONS</b> <b>Place Value Structures &amp; Multi-Digit Computation</b> Numbers to 1,000, Expanded Notation, Rounding, Money, Adding and Subtracting 2- and 3-Digit Numbers, Estimating and Measuring Length  <b>Literature Connection</b> The 329th Friend	<b>UNIT 3: 15 SESSIONS</b> <b>Two- &amp; Three-Dimensional Geometry</b> Describing and Analyzing Properties of 2- and 3-Dimensional Shapes, Sorting, Congruence, Symmetry, Transformations, Angles, Regular and Irregular Polygons  <b>Literature Connection</b> Snowflake Bentley	<b>UNIT 4: 24 SESSIONS</b> <b>Multiplication &amp; Division Patterns &amp; Concepts</b> Meanings of Multiplication and Division, Multiplication Facts to 10, Factors and Multiples, Posing and Solving Story Problems, Numeric Patterns, Determining Weight	<b>UNIT 5: 20 SESSIONS</b> <b>Place Value &amp; Computation with Larger Numbers</b> Numbers to 10,000, Expanded Notation, Rounding and Computational Estimation, 3- and 4-Digit Addition and Subtraction, Measuring Mass, Area and Perimeter, Numeric Patterns  <b>Literature Connection</b> The 329th Friend	<b>UNIT 6: 18 SESSIONS</b> <b>Money, Fractions &amp; Probability</b> Reading, Writing, Comparing, and Ordering Fractions, Equivalent Fractions Money and Decimal Notation, Multi-digit Addition and Subtraction, Probability Experiments, Measuring Capacity  <b>Literature Connection</b> Alexander, Who Used to be Rich Last Sunday	<b>UNIT 7: 20 sessions</b> <b>Three-Dimensional Geometry, Multiplication &amp; Data Analysis</b> Coordinate Grids, Properties of 3-D Shapes, Volume and Surface Area, 1- by 2-Digit Multiplication, Measuring Capacity	<b>UNIT 8: 15 SESSIONS</b> <b>Bridges Design &amp; Construction</b> Data Collection and Analysis, Experimental Design  <b>Literature Connection</b> Kids Discover Bridges	
	Number Corner	<b>AUGUST / SEPTEMBER Skills &amp; Concepts</b> <ul style="list-style-type: none"> <li>• skip counting</li> <li>• basic facts (+ and -)</li> <li>• repeating patterns</li> <li>• measuring devices and units</li> <li>• length, weight, time, capacity</li> <li>• counting money</li> </ul>	<b>OCTOBER Skills &amp; Concepts</b> <ul style="list-style-type: none"> <li>• basic facts (- and x)</li> <li>• number patterns</li> <li>• time to the minute</li> <li>• area</li> <li>• probability and data</li> </ul>	<b>NOVEMBER Skills &amp; Concepts</b> <ul style="list-style-type: none"> <li>• 2-digit addition and subtraction</li> <li>• geometric patterns</li> <li>• 2-D shapes</li> <li>• angles, symmetry, congruence</li> <li>• time and temperature</li> </ul>	<b>DECEMBER Skills &amp; Concepts</b> <ul style="list-style-type: none"> <li>• place value</li> <li>• multi-digit addition and subtraction</li> <li>• basic facts (x)</li> <li>• fractions</li> <li>• number patterns</li> <li>• elapsed time</li> <li>• temperature</li> <li>• picture and bar graphs</li> </ul>	<b>JANUARY Skills &amp; Concepts</b> <ul style="list-style-type: none"> <li>• multi-digit addition, subtraction, and multiplication</li> <li>• story problems (+ and -)</li> <li>• fractions</li> <li>• number patterns</li> <li>• money</li> <li>• elapsed time</li> <li>• temperature</li> </ul>	<b>FEBRUARY Skills &amp; Concepts</b> <ul style="list-style-type: none"> <li>• place value</li> <li>• multi-digit addition and subtraction</li> <li>• basic facts (x)</li> <li>• number patterns</li> <li>• counting money</li> <li>• making change</li> <li>• picture and bar graphs</li> </ul>	<b>MARCH Skills &amp; Concepts</b> <ul style="list-style-type: none"> <li>• basic facts (x and ÷)</li> <li>• multi-digit addition, subtraction, and multiplication</li> <li>• repeating patterns</li> <li>• 3-D shapes</li> <li>• elapsed time</li> <li>• length and perimeter</li> </ul>	<b>APRIL Skills &amp; Concepts</b> <ul style="list-style-type: none"> <li>• basic facts (x)</li> <li>• multi-digit addition, subtraction, and multiplication</li> <li>• fractions</li> <li>• story problems (+ and -)</li> <li>• number patterns</li> <li>• probability and data</li> </ul>	<b>MAY / JUNE Skills &amp; Concepts</b> <ul style="list-style-type: none"> <li>• rounding and estimation</li> <li>• basic facts (+, -, x and ÷)</li> <li>• multi-digit multiplication</li> <li>• fractions</li> <li>• number patterns</li> <li>• probability and data</li> </ul>

# Grade 3 Scope & Sequence by Strand

		NUMBER & OPERATIONS	ALGEBRA	GEOMETRY	MEASUREMENT	DATA ANALYSIS & PROBABILITY
3	Units	Unit 1: Computation, Algebraic Thinking & Probability Unit 2: Place Value Structures & Multi-Digit Computation Unit 4: Multiplication & Division Patterns & Concepts Unit 5: Place Value & Computation with Larger Numbers Unit 6: Money, Fractions & Probability Unit 7: Three-Dimensional Geometry, Multiplication & Data Analysis	Unit 1: Computation, Algebraic Thinking & Probability Unit 4: Multiplication & Division Patterns & Concepts	Unit 3: Two- & Three-Dimensional Geometry Unit 7: Three-Dimensional Geometry, Multiplication & Data Analysis	Unit 1: Computation, Algebraic Thinking & Probability Unit 2: Place Value Structures & Multi-Digit Computation Unit 4: Multiplication & Division Patterns & Concepts Unit 5: Place Value & Computation with Larger Numbers Unit 6: Money, Fractions & Probability Unit 7: Three-Dimensional Geometry, Multiplication & Data Analysis Unit 8: Bridges Design & Construction	Unit 6: Money, Fractions & Probability Unit 7: Three-Dimensional Geometry, Multiplication & Data Analysis Unit 8: Bridges Design & Construction
	Number Corner	August/September–May/June <ul style="list-style-type: none"> <li>• place value</li> <li>• rounding and estimation</li> <li>• basic facts (+, -, x, and ÷)</li> <li>• multi-digit addition, subtraction and multiplication</li> <li>• story problems</li> <li>• fractions</li> </ul>	August/September–May/June <ul style="list-style-type: none"> <li>• skip counting/number patterns</li> <li>• patterns and functions</li> <li>• properties of operations</li> </ul>	November, March <ul style="list-style-type: none"> <li>• 2- and 3-D shapes</li> <li>• angles, symmetry, congruence</li> </ul>	August/September–March <ul style="list-style-type: none"> <li>• time to the minute</li> <li>• elapsed time</li> <li>• counting money</li> <li>• making change</li> <li>• length, perimeter, area</li> <li>• temperature</li> <li>• measuring devices and units</li> </ul>	October, December, February, April, May/June <ul style="list-style-type: none"> <li>• picture and bar graphs</li> <li>• spinner and sampling experiments</li> </ul>