



Grade 2

Bridges in Mathematics Grade 2 invites students to explore, test, discuss, and apply ideas individually and in group settings, allowing them to learn from their peers and improve their mathematical communication skills. Engaging lessons and activities help second graders develop quick recall of basic facts to 18 as well as fluency with multi-digit addition and subtraction. A life science unit on ants and a physical science unit on marble rolls allow students to develop computation, measurement, and data analysis skills in the context of scientific observation and experimentation. Concepts are reinforced and extended during Work Places, partner games and activities that are used throughout the year. The short, daily Number Corner routines provide consistent practice with key skills and concepts, while Home Connection assignments involve families in their children's math education. Assessments, including appropriate paper and pencil tasks, individual interviews, and work sample are provided throughout the year so that teachers, students, and parents can track individual progress.



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.



The children can visualize math and understand patterns in it. They are much more capable of exploring how they got an answer. All of the children enjoy math and are actively involved. No one is 'afraid' of it anymore!

– Grade 2 Teacher
Wickliffe, OH

Grade 2 Scope & Sequence by Month

		AUGUST / SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY / JUNE
2	Units	UNIT 1: 23 SESSIONS Sorting, Patterning & Number Sorting and Graphing, Repeating and Growing Patterns, Skip Counting, Counting by 5's and 1's, Addition and Subtraction, Reading Numbers to 100, Coin Worth and Recognition, Counting Money	UNIT 2: 13 SESSIONS Hungry Ants Posing and Solving Story Problems Literature Connection One Hundred Hungry Ants	UNIT 3: 24 SESSIONS Addition, Subtraction & Probability Addition and Subtraction Facts to 18, Properties of Operations, Number Patterns, Odd and Even Numbers, Probability and Graphing Literature Connection 12 Ways to Get to 11	UNIT 4: 25 SESSIONS Shapes, Symmetry, Area & Number Properties of 2- and 3-Dimensional Shapes, Composing and Decomposing 2- and 3-Dimensional Shapes, Symmetry, Area, Tessellations, Transformations, Congruence, Exploring Fractions, Sorting and Graphing, Computation, Growing Patterns Literature Connection A Cloak for a Dreamer	UNIT 5: 35 SESSIONS Branching into Larger Numbers: Money & Place Value Counting by 100's, 10's & 1's, Comparing and Ordering 2- and 3-Digit Numbers, Adding and Subtracting 2-Digit Numbers, Counting Money, Making Change, Posing and Solving Story Problems, Data Analysis and Probability	UNIT 6: 13 SESSIONS Get Those Marbles Rolling Linear Measurement, Exploring Mass, Counting by 10's and 1's, Data Collection and Analysis, Graphing, Experimental Design	UNIT 7: 29 SESSIONS Games, Graphs & Toys Counting by 100's, 10's & 1's, Adding and Subtracting 2- and 3-Digit Numbers, Posing and Solving Story Problems, Counting Money, Fractions, Measuring Length and Area, Probability and Data Analysis, Surveys, Graphing Literature Connection Arthur's Funny Money		
	Number Corner	AUGUST / SEPTEMBER Skills & Concepts <ul style="list-style-type: none"> • skip counting • counting by 10's and 1's • growing patterns • rectangular arrays • number patterns • counting money 	OCTOBER Skills & Concepts <ul style="list-style-type: none"> • skip counting • counting by 10's and 1's • basic facts (+ and -) • repeating patterns • number patterns • counting money 	NOVEMBER Skills & Concepts <ul style="list-style-type: none"> • counting by 10's and 1's • 2-digit addition • sorting • repeating and growing patterns • number patterns • length • bar graphs 	DECEMBER Skills & Concepts <ul style="list-style-type: none"> • counting by 10's and 1's • fractions • repeating patterns • 2-D shapes • telling time • probability and data 	JANUARY Skills & Concepts <ul style="list-style-type: none"> • counting by 10's and 1's • basic facts (+ and -) • 2-digit addition • fractions • repeating patterns • number patterns • weight • probability and data 	FEBRUARY Skills & Concepts <ul style="list-style-type: none"> • counting by 100's, 10's and 1's • basic facts (+ and -) • 2- and 3-digit addition • sorting • repeating and growing patterns • counting money • capacity • bar graphs 	MARCH Skills & Concepts <ul style="list-style-type: none"> • counting by 100's, 10's and 1's • basic facts (+ and -) • 2- and 3-digit subtraction • fractions • number patterns • telling time • counting money 	APRIL Skills & Concepts <ul style="list-style-type: none"> • counting by 100's, 10's and 1's • 2- and 3-digit subtraction • sorting • repeating and growing patterns • number patterns • telling time • area and perimeter • bar graphs 	MAY / JUNE Skills & Concepts <ul style="list-style-type: none"> • counting by 100's, 10's and 1's • basic facts (+, - and x) • 2- and 3-digit addition and subtraction • 3-D shapes • number patterns • telling time • counting money • making change

Grade 2 Scope & Sequence by Strand

		NUMBER & OPERATIONS	ALGEBRA	GEOMETRY	MEASUREMENT	DATA ANALYSIS & PROBABILITY
2	Units	Unit 1: Sorting, Patterning & Number Unit 2: Hungry Ants Unit 3: Addition, Subtraction & Probability Unit 5: Branching into Larger Numbers: Money & Place Value Unit 7: Games, Graphs & Toys	Unit 1: Sorting, Patterning & Number Unit 3: Addition, Subtraction & Probability	Unit 4: Shapes, Symmetry, Area & Number	Unit 4: Shapes, Symmetry, Area & Number Unit 5: Branching into Larger Numbers: Money & Place Value Unit 6: Get Those Marbles Rolling	Unit 3: Addition, Subtraction & Probability Unit 5: Branching into Larger Numbers: Money & Place Value Unit 6: Get Those Marbles Rolling Unit 7: Games, Graphs & Toys
	Number Corner	August/September–May/June <ul style="list-style-type: none"> • counting by 100's, 10's and 1's • basic facts (+ and - to 20) • 2- and 3-digit addition and subtraction • rectangular arrays • beginning multiplication • fractions 	August/September–May/June <ul style="list-style-type: none"> • sorting • repeating and growing patterns • skip counting/number patterns • properties of operations 	May/June <ul style="list-style-type: none"> • 2- and 3-D shapes 	August/September–May/June <ul style="list-style-type: none"> • time to the minute • counting money • making change • length, weight and capacity • area and perimeter 	November, December, January, February, April <ul style="list-style-type: none"> • picture and bar graphs • sampling experiments