bridges in mathematics

GRADE K

Bridges & Number Corner Third Edition

CORRELATIONS

Ohio's Learning Standards for Mathematics

number corner

K MP — Standards for Mathematical Practice

Standard	Descriptor	Citations	
Standards for Mathematical Practice			
MP1	Make sense of problems and persevere in solving them.	**Bridges in Mathematics** Unit 1: M1 S4 Unit 2: M4 S3; M4 S4 Unit 3: M1 S3; M3 S2; M3 S5 Unit 4: M3 S1; M3 S2; M3 S3 Unit 5: M2 S5; M3 S3; M4 S2 Unit 6: M1 S1; M3 S1 Unit 7: M3 S1 Unit 8: M1 S2	**Number Corner** October: Days in School March: Calendar Grid April: Computational Fluency May: Calendar Grid
MP2	Reason abstractly and quantitatively.	**Bridges in Mathematics** Unit 1: M1 S5; M4 S4 Unit 3: M2 S1; M3 S1; M4 S1 Unit 4: M1 S1 Unit 5: M1 S2 Unit 6: M2 S5; M3 S1; M4 S1 Unit 7: M1 S4; M2 S1; M3 S4; M4 S1 Unit 8: M1 S4; M2 S5; M3 S1; M4 S1	**Number Corner** September: Calendar Collector October: Calendar Collector November: Calendar Collector, Computational Fluency December: Calendar Collector January: Calendar Collector, Computational Fluency February: Calendar Collector March: Calendar Collector April: Calendar Collector May: Calendar Collector
MP3	Construct viable arguments and critique the reasoning of others.	**Bridges in Mathematics** Unit 1: M1 S5 Unit 2: M1 S2; M2 S3; M3 S4 Unit 5: M4 S2; M4 S3 Unit 6: M1 S2; M1 S3	**Number Corner** October: Calendar Collector November: Days in School February: Number Path March: Calendar Grid
MP4	Model with mathematics.	**Bridges in Mathematics** Unit 3: M1 S1; M2 S2; M3 S2 Unit 6: M3 S3 Unit 8: M1 S2; M2 S1; M3 S4; M4 S1	**Number Corner** September: Days in School December: Calendar Grid January: Calendar Grid February: Computational Fluency March: Computational Fluency May: Calendar Collector

Standard	Descriptor	Citations	
Standards for Mathematical Practice			
MP5	Use appropriate tools strategically.	**Bridges in Mathematics** Unit 2: M2 S1; M2 S2; M2 S4 Unit 3: M2 S2 Unit 4: M2 S5 Unit 7: M1 S2; M3 S2 Unit 8: M2 S4	**Number Corner** April: Computational Fluency May: Calendar Grid
MP6	Attend to precision.	**Bridges in Mathematics** Unit 1: M1 S2; M2 S6; M4 S3 Unit 2: M1 S5; M3 S1; M4 S1 Unit 3: M3 S3 Unit 4: M2 S3; M3 S1 Unit 5: M1 S1; M2 S1; M4 S4 Unit 6: M1 S1; M2 S1 Unit 7: M1 S1; M2 S2 Unit 8: M1 S1; M2 S1; M4 S4	**Number Corner** October: Calendar Grid February: Calendar Grid, Number Path April: Number Path
MP7	Look for and make use of structure.	**Bridges in Mathematics** Unit 1: M2 S1; M3 S2; M4 S4 Unit 2: M1 S3; M2 S3; M3 S1; M4 S2 Unit 3: M1 S4; M2 S1; M3 S4; M4 S1 Unit 4: M1 S1; M2 S3; M4 S5 Unit 5: M1 S3; M2 S1; M4 S1 Unit 6: M1 S5; M2 S3; M3 S5; M4 S2 Unit 7: M1 S2; M2 S3; M4 S1 Unit 8: M2 S2	**Number Corner** September: Calendar Grid, Number Path, Computational Fluency October: Calendar Grid, Number Path, Days in School November: Calendar Grid, Number Path, Days in School December: Calendar Collector, Days in School January: Calendar Grid, Number Path February: Number Path, Days in School March: Number Path, Days in School April: Calendar Grid May: Computational Fluency, Number Path
MP8	Look for and express regularity in repeated reasoning.	**Bridges in Mathematics** Unit 2: M3 S4; M4 S2 Unit 3: M2 S3; M4 S4 Unit 4: M4 S2; M4 S4 Unit 5: M2 S2 Unit 6: M1 S2; M3 S4 Unit 8: M1 S3; M2 S3; M3 S2	**Number Corner** September: Computational Fluency October: Number Path, Computational Fluency November: Calendar Grid, Computational Fluency December: Number Path, Computational Fluency January: Number Path, Computational Fluency February: Calendar Collector, Days in School March: Number Path, Days in School April: Days in School

K CC — Counting and Cardinality

Standard	Descriptor	Citations	
Know number names and the count sequence.			
K.CC.1	Count to 100 by ones and by tens.	**Bridges in Mathematics** Unit 1: M1 S1; M1 S2; M1 S4 Unit 3: M3 S1 Unit 4: M1 S1; M1 S2; M1 S3; M2 S4; M3 S2 Unit 5: M2 S4 Unit 6: M1 S3; M1 S4; M4 S1; M4 S2 Unit 7: M4 S1; M4 S4; M4 S5	**Number Corner** September: Calendar Collector, Number Path, Days in School October: Number Path, Days in School November: Number Path, Days in School December: Calendar Collector, Number Path, Days in School January: Number Path, Days in School February: Days in School March: Days in School April: Number Path, Days in School May: Number Path, Days in School
K.CC.2	Count forward within 100 beginning from any given number other than 1.	**Bridges in Mathematics** Unit 3: M3 S2; M4 S2; M4 S5 Unit 4: M1 S1; M1 S2; M3 S2; M4 S3 Unit 5: M3 S1	**Number Corner** November: Number Path January: Number Path February: Calendar Collector, Number Path March: Number Path, Days in School April: Number Path May: Number Path
K.CC.3	Write numerals from 0 to 20. Represent a number of objects with a written numeral 0-20 (with 0 representing a count of no objects).	**Bridges in Mathematics** Unit 1: M2 S4; M2 S5; M3 S3; M3 S6 Unit 5: M1 S3 Unit 6: M3 S1; M3 S2; M3 S4 Unit 7: M4 S1	**Number Corner** September: Number Path October: Number Path February: Number Path

Standard	Descriptor	Citations	
Count to tell the number of objects.			
	K.CC.4 Understand the relationship between numbers and quantities; connect counting to cardinality using a variety of objects, including pennies.		
K.CC.4a	When counting objects, establish a one-to-one relationship by saying the number names in the standard order, pairing each object with one and only one number name and each number name with one and only one object.	**Bridges in Mathematics** Unit 1: M1 S3; M1 S4; M1 S5; M2 S1; M3 S1; M3 S4; M3 S5 Unit 2: M1 S3; M1 S4; M1 S5; M2 S2; M3 S6 Unit 4: M2 S1 Unit 5: M1 S3	**Number Corner** September: Calendar Collector, Number Path, Computational Fluency October: Computational Fluency November: Calendar Collector December: Calendar Collector, Days in School February: Calendar Grid, Days in School May: Days in School
K.CC.4b	Understand that the last number name said tells the number of objects counted and that the number of objects is the same regardless of their arrangement or the order in which they were counted.	**Bridges in Mathematics** Unit 1: M1 S3; M1 S4; M2 S1; M2 S3; M2 S5 Unit 2: M1 S1; M1 S2; M1 S3; M3 S5 Unit 3: M1 S5; M2 S4 Unit 4: M2 S1	**Number Corner** September: Calendar Collector October: Computational Fluency November: Calendar Collector January: Computational Fluency
K.CC.4c	Understand that each successive number name refers to a quantity that is one larger.	**Bridges in Mathematics** Unit 1: M3 S2 Unit 2: M3 S2 Unit 3: M4 S1 Unit 6: M3 S1 Unit 8: M3 S2	**Number Corner** September: Computational Fluency, Days in School October: Number Path, Days in School November: Calendar Grid December: Number Path
K.CC.5	Count to answer “how many?” questions about as many as 20 things arranged in a line, a rectangular array, or a circle, or as many as 10 things in a scattered configuration; given a number from 1–20, count out that many objects.	**Bridges in Mathematics** Unit 1: M1 S3 Unit 2: M1 S3; M1 S4; M1 S5 Unit 3: M3 S3 Unit 5: M1 S3 Unit 7: M2 S1; M2 S3; M2 S4 Unit 8: M2 S2; M2 S3	**Number Corner** February: Calendar Grid March: Calendar Grid May: Computational Fluency

Standard	Descriptor	Citations	
Compare numbers.			
K.CC.6	Orally identify (without using inequality symbols) whether the number of objects in one group is greater/more than, less/fewer than, or the same as the number of objects in another group, not to exceed 10 objects in each group.	**Bridges in Mathematics** Unit 1: M1 S3; M1 S4; M1 S5; M3 S5 Unit 2: M1 S4; M1 S5; M3 S3 Unit 3: M3 S3; M4 S1 Unit 4: M3 S3; M3 S4; M3 S5; M4 S1; M4 S2 Unit 5: M1 S4; M1 S5 Unit 6: M3 S5 Unit 7: M2 S3; M2 S4 Unit 8: M1 S5	**Number Corner** October: Calendar Collector January: Calendar Collector February: Calendar Grid
K.CC.7	Compare (without using inequality symbols) two numbers between 0 and 10 when presented as written numerals.	**Bridges in Mathematics** Unit 1: M1 S3; M1 S4; M1 S5 Unit 4: M1 S4; M1 S5 Unit 6: M3 S3 Unit 7: M2 S5 Unit 8: M3 S1	**Number Corner** January: Number Path

K OA — Operations and Algebraic Thinking

Standard	Descriptor	Citations	
Understand addition as putting together and adding to and understand subtraction as taking apart and taking from.			
K.OA.1	Represent addition and subtraction with objects, fingers, mental images, drawings, sounds such as claps, acting out situations, verbal explanations, expressions, or equations. Drawings need not show details but should show the mathematics in the problem. (This applies wherever drawings are mentioned in the Standards.)	**Bridges in Mathematics** Unit 2: M1 S1; M2 S4; M2 S5; M3 S1 Unit 3: M1 S1; M1 S2; M1 S3; M2 S2; M2 S5; M3 S1; M3 S2; M3 S5; M4 S3 Unit 4: M2 S1; M2 S2; M2 S3; M4 S3 Unit 5: M2 S2 Unit 6: M4 S4 Unit 7: M3 S1; M3 S3; M3 S4; M4 S3 Unit 8: M4 S2	**Number Corner** December: Calendar Grid, Computational Fluency January: Computational Fluency March: Calendar Grid, Computational Fluency April: Calendar Collector, Computational Fluency
K.OA.2	Solve addition and subtraction problems (written or oral) and add and subtract within 10 by using objects or drawings to represent the problem.	**Bridges in Mathematics** Unit 3: M1 S3; M2 S2; M3 S2 Unit 4: M2 S4; M2 S5 Unit 6: M3 S3; M4 S1; M4 S4 Unit 7: M3 S1; M3 S2; M3 S3 Unit 8: M1 S3; M1 S5	**Number Corner** January: Calendar Grid February: Calendar Collector March: Calendar Grid, Computational Fluency April: Calendar Collector, Computational Fluency May: Calendar Grid, Calendar Collector
K.OA.3	Decompose numbers and record compositions for numbers less than or equal to 10 into pairs in more than one way by using objects and, when appropriate, drawings or equations.	**Bridges in Mathematics** Unit 1: M2 S1; M2 S2; M3 S4; M3 S5 Unit 2: M1 S1; M2 S3; M2 S4 Unit 3: M1 S1; M1 S2; M3 S4; M4 S4 Unit 5: M1 S4; M1 S5 Unit 6: M4 S2; M4 S3; M4 S5 Unit 7: M3 S3; M3 S4 Unit 8: M2 S5; M4 S1	**Number Corner** October: Calendar Collector, Computational Fluency November: Computational Fluency December: Computational Fluency January: Calendar Grid, Computational Fluency February: Calendar Collector March: Calendar Collector April: Calendar Collector May: Calendar Collector

Standard	Descriptor	Citations	
Understand addition as putting together and adding to and understand subtraction as taking apart and taking from.			
K.OA.4	For any number from 1 to 9, find the number that makes 10 when added to the given number, e.g., by using objects or drawings, and record the answer with a drawing or, when appropriate, an equation.	**Bridges in Mathematics** Unit 3: M3 S5 Unit 7: M3 S4 Unit 8: M2 S5	**Number Corner** October: Days in School November: Days in School January: Days in School February: Computational Fluency March: Calendar Grid April: Days in School
K.OA.5	Fluently add and subtract within 5.	**Bridges in Mathematics** Unit 3: M3 S4; M3 S5 Unit 6: M2 S5; M4 S2; M4 S3 Unit 8: M4 S3	**Number Corner** September: Computational Fluency November: Computational Fluency March: Calendar Collector

K NBT — Number and Operations in Base Ten

Standard	Descriptor	Citations	
Work with numbers 11–19 to gain foundations for place value.			
K.NBT.1	Compose and decompose numbers from 11 to 19 into a group of ten ones and some further ones by using objects and, when appropriate, drawings or equations; understand that these numbers are composed of a group of ten ones and one, two, three, four, five, six, seven, eight, or nine ones.	**Bridges in Mathematics** Unit 6: M3 S1; M3 S2; M3 S4 Unit 7: M1 S4; M1 S5; M2 S1; M2 S2; M2 S3; M4 S2 Unit 8: M3 S3; M3 S5	**Number Corner** January: Calendar Collector February: Number Path May: Computational Fluency

K MD — Measurement and Data

Standard	Descriptor	Citations	
Identify, describe, and compare measurable attributes.			
K.MD.1	Identify and describe measurable attributes (length, weight, and height) of a single object using vocabulary terms such as long/short, heavy/light, or tall/short.	**Bridges in Mathematics** Unit 4: M3 S1; M3 S2; M3 S3; M3 S4 Unit 7: M1 S1; M1 S3 Unit 8: M2 S4	
K.MD.2	Directly compare two objects with a measurable attribute in common to see which object has "more of" or "less of" the attribute, and describe the difference. *For example, directly compare the heights of two children, and describe one child as taller/shorter.*	**Bridges in Mathematics** Unit 4: M3 S1; M3 S2; M3 S3; M3 S4; M3 S5 Unit 6: M1 S1; M1 S2; M1 S3; M1 S4; M1 S5 Unit 8: M2 S1	
Classify objects and count the number of objects in each category.			
K.MD.3	Classify objects into given categories; count the numbers of objects in each category and sort the categories by count. The number of objects in each category should be less than or equal to ten. Counting and sorting coins should be limited to pennies.	**Bridges in Mathematics** Unit 1: M1 S3; M1 S4 Unit 4: M4 S1 Unit 5: M1 S2; M2 S2; M2 S3; M3 S2 Unit 6: M1 S1; M1 S5 Unit 8: M3 S4	**Number Corner** January: Calendar Collector

K G — Geometry

Standard	Descriptor	Citations	
Identify and describe shapes (squares, circles, triangles, rectangles, hexagons, cubes, cones, cylinders, and spheres).			
K.G.1	Describe objects in the environment using names of shapes and describe the relative positions of these objects using terms such as *above*, *below*, *beside*, *in front of*, *behind*, and *next to*.	**Bridges in Mathematics** Unit 5: M1 S1; M3 S1; M3 S2; M3 S3; M3 S4 Unit 6: M1 S5; M2 S1	**Number Corner** October: Calendar Grid November: Calendar Grid April: Calendar Grid
K.G.2	Correctly name shapes regardless of their orientations or overall size.	**Bridges in Mathematics** Unit 2: M4 S3; M4 S4 Unit 5: M2 S1; M2 S5; M4 S2; M4 S3; M4 S4; M4 S5 Unit 6: M2 S1	**Number Corner** September: Calendar Grid April: Calendar Grid
K.G.3	Identify shapes as two–dimensional (lying in a plane, "flat") or three dimensional ("solid").	**Bridges in Mathematics** Unit 6: M1 S1; M1 S2; M2 S1; M2 S2; M2 S3; M2 S4	**Number Corner** April: Calendar Grid
Describe, compare, create, and compose shapes.			
K.G.4	Describe and compare two- or three-dimensional shapes, in different sizes and orientations, using informal language to describe their commonalities, differences, parts, and other attributes.	**Bridges in Mathematics** Unit 5: M1 S1; M2 S1; M2 S2; M2 S3 Unit 6: M1 S1; M1 S2; M1 S5; M2 S2; M2 S4	**Number Corner** September: Calendar Grid

Standard	Descriptor	Citations
Describe, compare, create, and compose shapes.		
K.G.5	Model shapes in the world by building shapes from components, e.g., sticks and clay balls, and drawing shapes.	**Bridges in Mathematics** Unit 5: M2 S5; M3 S1; M3 S2; M3 S3; M3 S4; M4 S5 Unit 6: M1 S4: M2 S3
K.G.6	Combine simple shapes to form larger shapes.	**Bridges in Mathematics** Unit 2: M4 S1; M4 S2; M4 S3; M4 S4 Unit 5: M3 S2; M3 S3; M3 S4; M4 S5