



Math - Grade K5

Course Description:

The Indian Community School cultivates an enduring cultural identity and critical thinking by weaving indigenous teachings with a distinguished learning environment. The curriculum for this course is developed from the [Common Core State Standards for Mathematics](#) and the framework of the [ICS Our Ways Cultural Calendar](#). In this course, students will develop a deep understanding of mathematical concepts, key skills, and an ability to solve complex problems. Number skills as well as geometric ideas and vocabulary are stressed throughout the year. Students learn to communicate mathematical reasoning and use a variety of math tools and models.

Enduring Understandings:

- Counting is a purposeful skill that assigns a number name to an object or set of objects.
- Mathematical operations are used in solving problems in which a new value is produced from one or more values.
- Algebraic thinking involves choosing, combining, and applying effective strategies for answering quantitative questions.
- Understanding place value can lead to number sense and efficient strategies for computing with numbers.
- Measurement processes are used in everyday life to describe and quantify the world.
- Data displays describe and represent data in alternative ways.
- Geometric attributes, such as shapes, lines, angles, figures, and planes, provide descriptive information about an object's properties and position in space and support visualization and problem solving.

COUNTING AND CARDINALITY

- I can count to 100 by 1's. (K.CC.A.1)
- I can count to 100 by 10's. (K.CC.A.1)
- I can count on from any number up to 100. (K.CC.A.2)
- I can write numbers 0-20. (K.CC.A.3)
- I can represent a number of objects (0-20) with a written numeral. (K.CC.A.3)
- I can count how many objects are in a group. (K.CC.B.4.A)
- I can count objects in a group regardless of arrangement and order. (K.CC.A.4.B)
- I can identify that the last number I said is the total number of objects I counted. (K.CC.A.4.B)
- I can count objects up to 20 in a variety of arrangements and show the number. (K.CC.B.5)
- I can compare the number of objects in one group as greater than, less than, or equal to the number of objects in another group. (K.CC.C.6)
- I can compare two written numbers between 1 and 10. (K.CC.C.7)



OPERATIONS AND ALGEBRAIC THINKING

- I can identify the mathematical symbols used to show addition and subtraction. (K.OA.A.1)
- I can show addition and subtraction using objects, fingers, sounds, acting out situations, expressions, and equations. (K.OA.A.1)
- I can add and subtract numbers within 10. (K.OA.A.2)
- I can take apart numbers to 10 using objects or drawings and record the answer using a drawing or equation. (K.OA.A.3)
- I can determine the number to add a given number 1-9 to make 10, and show the answer with a drawing or equation. (K.OA.A.4)
- I can fluently add and subtract numbers within 5. (K.OA.A.5)

NUMBER AND OPERATIONS IN BASE TEN

- I can make and take apart numbers 11-19 using tens and ones and show my work with a drawing or equation. (K.NBT.1)

MEASUREMENT AND DATA

- I can describe measurable attributes of objects. (K.MD.A.1)
- I can compare attributes of two objects and see which object has “more of” or “less of” the attribute. (K.MD.A.2)
- I can count, sort, and classify objects into categories. (K.MD.A.3)

GEOMETRY

- I can find and name shapes in my environment. (K.G.A.1)
- I can describe the position of objects as above, below, beside, in front of, behind, and next to. (K.G.A.1)
- I can name shapes correctly. (K.G.A.2)
- I can identify two-dimensional shapes as being flat and three-dimensional shapes as being solid. (K.G.A.3)
- I can describe a shape by the number of sides, number of vertices, and other attributes. (K.G.B.4)
- I can analyze and compare two- and three-dimensional shapes to describe similarities and differences. (K.G.B.4)
- I can build models of and draw shapes from my world. (K.G.B.5)
- I can put simple shapes together to make larger shapes. (K.G.B.6)