



Course Overview

For kindergartners, a key to mathematical understanding is making the link between the concrete and the abstract—between physical models and written symbols. To achieve this understanding, students will:

- Use manipulatives to understand the relationships between numbers and physical quantities

- Apply their understanding of counting to time and money
- Perform simple addition and subtraction using physical objects to model problems
- Identify and complete patterns

Course Outline

Position and Classification

- Identify, sort, and classify objects by attribute
- Identify objects that do not belong to a particular group
- Identify and use appropriate terms for the positions of objects
- Distinguish between circles, squares, and triangles

Comparison and Patterns

- Compare and sort sets of objects by size
- Recognize and extend simple repeating patterns
- Identify pattern rules

Number Readiness and Graphing

- Apply one-to-one correspondence
- Compare two or more sets of objects and identify which set is equal to, more than, or less than the other
- Collect, organize, and record data using tallies and graphs

Numbers 0 to 6

- Recognize the relationship between numbers and quantities by counting, representing, naming, and writing numerals for a number of objects from 0 to 6
- Sequence numbers from 0 to 6
- Identify ordinal positions of first through fifth

Numbers to 12

- Count, name, and write numerals for a number of objects from 0 to 12
- Sequence, compare, and order numbers from 0 to 12
- Identify ordinal positions of first through tenth
- Collect, organize, and record data on a pictograph
- Solve problems using specific strategies

Geometry, Fractions, and Measurement

- Recognize and identify plane and solid figures by attribute
- Sort, classify, and compare plane and solid figures by attribute

- Recognize a whole when it is divided into equal parts
- Recognize equal shares
- Recognize that objects have properties like length, weight, and capacity
- Estimate and measure length using non standard units
- Compare the weight of objects
- Compare the capacity of objects
- Distinguish between hot and cold temperatures

Money and Time

- Identify the value of a penny, a nickel, and a dime
- Count, recognize, write, represent, and name coins to 12 cents
- Order, compare, and trade coins to 12 cents
- Recognize the concept of time and sequence events
- Tell time to the hour

Addition and Subtraction Readiness

- Add by joining groups of objects
- Represent subtraction as a separating action
- Add and subtract numbers to 10

Numbers to 31

- Count, recognize, write, name, order, compare, and represent numbers to 31
- Organize and record data on a bar graph
- Identify the parts of and read a calendar

Moving On in Mathematics

- Identify addition and subtraction patterns
- Skip count by 2, 5, and 10
- Count on and back by 1 and 10

Lesson Time and Scheduling

Total lessons: 180

Lesson Time: 45 minutes. You might choose to split the lessons into smaller segments and take breaks as needed. K¹²'s online lesson tracking system allows you to pick up wherever you left off in any given lesson.

Kindergarten Math



Standard Curriculum Items

Math Textbook, Kindergarten

Math Counting Chips

Multilink Cubes

Game Spinner

Math Pattern Blocks

Math Attribute Blocks

Geometric 3-D Shapes

NOTE: List subject to change.