

Essential Concepts for Mathematics - Kindergarten

Numbers and Operations

- Count and model sets of 10
- Recognize and write numerals to 10.
- Demonstrate and describe multiple representations and combinations of numbers.
- Identify which of two groups of objects has more, the same, or fewer.
- Estimate quantities less than 10.
- Demonstrate the joining and separating of sets and record results pictorially.

Algebra

- Sort a group of objects with similar attributes.
- Identify, duplicate, extend, and create patterns with physical objects and pictorial representations.
- Count from 1 to 20.
- Count backward from 10 to 0.
- Predict what comes next in an established pattern.

Geometry

- Classify objects according to size, shape, color, and number.
- Identify and draw circles, triangles, squares, and rectangles and find examples in the environment.
- Using blocks or manipulatives combine shapes to create two- and three-dimensional objects.
- Use and demonstrate positional words.

Measurement

- Measure length with non-standard measurement.
- Compare two objects. (e.g., shorter/longer, heavier/lighter)
- Identify clocks and calendars as tools that measure time and identify the day, week, and month.
- Name the days of the week in order.
- Sort pennies, nickels, dimes, and quarters and identify them as units of money.

Data Analysis and Probability

- Collect, organize, and record data using objects and pictures.
- Represent data in a variety of ways.
- Describe events as likely or unlikely.