

# RTR Math Standards Kindergarten

## Course Abilities

1. **Develop abilities in math.**
  - A. Solve problems in math.
  - B. Use a variety of strategies to solve problems.
  - C. Solve problems in a step-by-step manner.
  - D. Use manipulatives to help solve problems: graphs, charts, clocks, calendars, shapes, money, calculators, computers etc.
  - F. Be able to use math to solve daily life problems.

## Course Content

1. **Use words to describe objects.**
  - A. Sort objects and describe sorting criteria (color, weight, shape, length, thickness, and other kinds of size).
  - B. Use the words for size and position (more/less, most/least, few/many, large/small, big/little, heavy/light, thick/thin, over/under, above/below, top/bottom, right/left/middle, beside/in front of/behind, first/second/third/etc.).
  - C. Identify 2 and 3 dimensional shapes (square, circle, triangle, rectangle, diamond, rhombus, oval, trapezoids, hexagons, cubes, cones, cylinders, and spheres).
  - D. Recognize and describe 2 and 3 dimensional shapes in their environment.
2. **Recognize, create, complete, and extend patterns using a variety of modalities.**
  - A. Identify each type of pattern.
  - B. Recreate a pattern from a picture or model.
  - C. Complete and extend patterns.
  - D. Create your own pattern.
3. **Display understanding of the relationship between quantities and whole numbers up to 31.**
  - A. Order numbers from 0-20.
  - B. Verbally count to 50.
  - C. Count with and without objects forward to and backward from 20.
  - D. Recognize that a number can be used to represent how many objects are in a set or to represent the position of an object in a sequence
  - E. Point to numbers when asked to.
  - F. Name numbers in random order.
  - G. Write numbers using correct number formation.
  - H. Find a number that is 1 more or 1 less than a given number.
5. **Solve addition and subtraction problems up to 10 using objects and pictures.**
  - A. Join & separate sets.
  - B. Explain how you are joining and separating sets.
6. **Orally count by 5's and 10's to 100.**
7. **Identify a penny, nickel, dime, and quarter and state the value of each.**

December, 2014