

Highland Park Kindergarten Mathematics Curriculum

(Standard Title: Geometry)

Course Information

Course: Kindergarten Mathematics

Length Per Day: 45 minutes per day

Brief Basic Description: Math at the Kindergarten level focuses on counting to 100, and writing numbers to 20. Students sort and classify groups of objects, and identify 2D and 3D shapes. Students will gain a strong foundation for place value understanding. Students will be introduced to addition and subtraction.

ESSENTIAL UNDERSTANDING:

Kindergarten mathematics curriculum is designed to:

- Correctly use positional words
- Correctly name and describe two dimensional and three dimensional shapes
- Count to 100 by 1's and 10's
- Count objects 1-20
- Compare numbers in groups
- Correctly write numbers 0-20
- Learn about numbers 11-20, with tens and ones
- Understand that addition is putting together and adding groups
- Understand that subtraction is taking apart and taking from groups
- Fluently add up to 5 and subtract from 5
- Sort objects into groups

Theme Samples :

1. Analyze
 2. Describe
 3. Compare
- Students will describe objects in their environment using names of shapes, and describe their relative position of these objects using terms such as above, below, beside, in front of, behind, and next to, with 100% accuracy.
 - Students will correctly name shapes regardless of their orientations or overall size with 100% accuracy.

- Students will identify shapes as two-dimensional (lying in a plane, flat) or three-dimensional solid with 100% accuracy.
- Students will analyze and compare two- and three- dimensional shapes, in different sizes and orientations (number of sides and vertices/corners) and other attributes, with 100% accuracy.
- Students will model shapes in the world by building shapes from components and drawing shapes, with 80% accuracy.
- Students will compose simple shapes to form larger shapes, with 100% accuracy.

Course Objectives and Expectations:

- Identify and describe shapes (squares, circles, triangle, rectangles, hexagons, cubes, cones, cylinders, and spheres).
- Analyze, compare, create, and compose shapes.

Student Objectives-

- I can classify, describe, and construct 2D and 3D shapes.
- I can identify shapes in my environment.

Pacing

Montana Common Core Standard

See Math in Focus Curriculum Guide

Timeline

Approximate length to teach unit

See Math in Focus Curriculum Guide

Montana Content Standards-

Geometry

Standard: K.G.A.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.

Standard: K.G.A.2

- Correctly name shapes regardless of their orientations or overall size.

Standard: K.G.A.3

- Identify shapes as two-dimensional (lying in a plane, flat) or three-dimensional (solid).

Standard: K.G.B.4

- Analyze and compare two- and three-dimensional shapes, in different sizes and orientations, using informal language to describe their similarities, differences,

parts (e.g., number of sides and vertices/"corners") and other attributes (e.g., having sides of equal length).

Standard: K.G.B.5

- Model shapes in the world by building shapes from components (e.g., sticks and clay balls) and drawing shapes.

Standard: K.G.B.6

- Compose simple shapes to form larger shapes. For example, "Can you join these two triangles with full sides touching to make a rectangle?"

Resources

- Common Core State Standards
- Every Day Counts Calendar Math
- Singapore Primary Math Strategies
- Dibels Next (Easy CBM)