Kindergarten At A Glance

North Allegheny Mathematics Overview

Essential Questions:

- *What are the four basic 2D shapes?*
- *What are the basic numbers, 0-10? How can you count 0-10? Can you count objects 0-10? Can you write the numbers 0-10?*
- *What are the numbers 11-19? Can you count 11-19? Can you count objects 11-19? Can you write the numbers 11-19?*
- *What are the numbers beyond 20? Can you count past 20? Can you count objects beyond 20?? Can you write the numbers beyond 20?*
- *How are numbers added together?*
- *How are numbers subtracted from 10?*
- *What are the 3D shapes?*
- *What is the length, area, weight, and capacity of an object?*
- *How are objects sorted by attribute?*

Numbers and Operations

- Know number names and write and recite the count sequence.
- Apply one-to-one correspondence to count the number of objects.
- Apply the concept of magnitude to compare numbers and quantities.
- Use place value to compose and decompose numbers within 19.

Algebraic Concepts

- Extend concepts of putting together and taking apart to add and subtract within 10.

Geometry

- Identify and describe two- and three-dimensional shapes.
- Analyze, compare, create, and compose two- and three-dimensional shapes.

Measurement, Data, and Probability

- Describe and compare attributes of length, area, weight, and capacity of everyday objects.
- Classify objects and count the number of objects in each category.

CONCEPTS/TOPICS

Two Dimensional Shapes

Represent, Count, & Write Numbers 0-5

Compare Numbers 0-5

Represent, Count, & Write Numbers 6-10

Compare Numbers 6-10

Represent, Count, & Write Numbers 11-19

Represent, Count, & Write Numbers 20+

Addition

Subtraction

Three Dimensional Shapes

Measurement

Classify & Sort Data

PA Mathematical Practices

➔ Make sense of problems and persevere in solving them.

➔ Reason abstractly and quantitatively.

➔ Construct viable arguments and critique the reasoning of others.

➔ Model with mathematics.

➔ Use appropriate tools strategically.

➔ Attend to precision.

➔ Look for and make use of structure.

➔ Look for and express regularity in repeated reasoning.