

Pre-K 2020 Unit #1: Mathematics - Ready for School (PK)

Content Area: **Mathematics**
Course(s): **Pre K**
Time Period: **Marking Period 1**
Length: **4 weeks**
Status: **Published**

Established Goals/Standards

Please choose the appropriate Goals/Standards from the Standards tab above.

MA.PK.4.1	Children begin to demonstrate an understanding of number and counting.
MA.PK.4.1.1	Count to 20 by ones with minimal prompting.
MA.PK.4.1.3	Compare groups of objects (e.g., using the terms “more,” “less,” “same”).
MA.PK.4.1.3	Know that written numbers are symbols for number quantities and, with support, begin to write numbers from 0 to 10.
MA.PK.4.1.4	Understand the relationship between numbers and quantities (i.e., the last word stated when counting tells “how many”):
MA.PK.4.1.4.b	spontaneously count for own purposes; and
MA.PK.4.1.4.c	recognize a number of objects (up to four) without counting.
MA.PK.4.1.6	Compare groups of up to 5 objects (e.g., beginning to use terms such as “more,” “less,” “same”).
MA.PK.4.2	Children demonstrate an initial understanding of numerical operations.
MA.PK.4.2.1	Represent addition and subtraction by manipulating up to 5 objects:
MA.PK.4.2.1	Use and respond to positional words (e.g., in, under, between, down).
MA.PK.4.2.2	Begin to represent simple word problem data in pictures and drawings.
MA.PK.4.2.7	Explore the use of nonstandard objects for measurement.
MA.PK.4.2.8	Compare and order objects according to measurable attributes (e.g., length, weight).
MA.PK.4.3.1	Describe patterns in the environment.
MA.PK.4.3.2	Represent patterns in a variety of ways.
MA.PK.4.3.3	Begin to represent data in pictures and drawings.
MA.PK.4.3.4	Show awareness of the attributes of objects through sorting, ordering, and classifying.
MA.PK.4.4.1	Learn mathematics through problem solving, inquiry, and discovery and use emergent mathematical knowledge as a problem-solving tool.
MA.PK.4.4.2	Solve problems that arise in mathematics and in other contexts.
MA.PK.4.4.3	Use communication to organize and clarify mathematical thinking by discussing, listening, and asking questions during activities.
MA.PK.4.4.4	Recognize that mathematics is used in a variety of contexts in all disciplines, and apply mathematics in practical situations and other disciplines.
MA.PK.4.4.5	Use technology to reinforce concrete mathematical information (e.g., to explore patterns and shapes).

Essential Questions

Please add your Essential Questions by clicking on the Lists tab above.

- What is a pattern?
- Where is...?(positional words)
- Which has...?(comparing quantities)
- Which is...?(comparing length, height)

Enduring Understanding

Please add your Enduring Understandings by clicking on the Lists tab above.

- A pattern is something that repeats over and over.
- Comparing words include longer, shorter, taller
- Positional words include beside, between, in, on, under
- Quantity words include more, less, same

Content

Students will be able to:

- Recognize patterns
- Create patterns
- Use position words
- Compare lengths
- Use measurement words
- Count items
- Count to 5
- Compare quantities
- Understand graphs

Vocabulary

- next
- pattern
- repeat
- beside
- on
- between
- under
- in
- longer
- shorter
- taller
- less
- more

- same

Resources

Please add your Resources by clicking on the Lists tab above.

- Bear counters
- Math Mat 1
- Math Mat 2
- Math Mat 3
- Math Mat 4
- Mouse's First Day of School by Lauren Thompson
- The Little Red Hen by Lucinda McQueen
- Unifex cubes