

Appendix

Math Scope and Sequence

Unit 1: Describing and Exploring Our World Mathematically

Children explore and describe the attributes of the materials they will be using to model their mathematical thinking throughout the year.

Theme 1	Week 1	Free Exploration of Materials/ Introduction of the Attendance Chain
	Week 2	Spatial Relationships
	Week 3	Attributes/ Alike and Different
	Week 4	Geometric Attributes (Shape, Lines, and Curves)
Theme 2	Week 1	Measurable Attributes (Size, Length, Height, Width)

Unit 2: Developing Formal Skills for Learning Mathematics

Children develop and solidify the foundational skills in counting, sorting, and patterning they need to learn formal math concepts, such as geometry, measurement, number, and data.

Theme 2	Week 2	Understanding Quantity and Subitizing (Quantities 0-3)
	Week 3	Meaningful Object Counting (Quantities 1-5)
	Week 4	Meaningful Object Counting (Quantities 1-10)
Theme 3	Week 1	Identifying and Ordering Numerals 0-10
	Week 2	Representing Quantities with Numerals 0-10
	Week 3	Sorting by One Attribute
	Week 4	Two-Element Patterns (AB, ABB, AAB)

Unit 3: Investigating Geometry, Measurement, Number, and Data

Children apply what they have learned about counting, sorting, and patterning to make sense of geometry, measurement, number and data.

Theme 4	Week 1	2-Dimensional Shapes
	Week 2	3-Dimensional Shapes
	Week 3	Measuring via Direct Comparison
	Week 4	Sorting Data by 2 Attributes
Theme 5	Week 1	Classifying Straight-Sided Shapes (Polygons)
	Week 2	Measuring with Non-Standard Units
	Week 3	Making Shapes (Putting Together and Taking Apart)
	Week 4	Making Sets to 10 (Numeration)
Theme 6	Week 1	Rote Counting to 30 (Patterns in the Number System)
	Week 2	Three and Four-Element Patterns (ABC, ABCD, AABC)
	Week 3	Grids
	Week 4	Graphing

Unit 4: Joining, Separating, and Comparing (Number Operations)

Children extend their understanding of numbers to make sense of and show how quantities change (grow or increase) through some type of operation (putting together or taking apart).

Theme 7	Week 1	Joining Quantities (Informal Addition)
	Week 2	Separating Quantities (Informal Subtraction)
	Week 3	Part-Part-Whole Relationships
	Week 4	Comparison of Quantities
Theme 8	Week 1	One-More/ One-Less (Ordering Quantities)
	Week 2	Five and Some More (6-10)
	Week 3	Ten and Beyond (Counting Sets of 11-20)

Unit 5: Analyzing Our World Mathematically

Children apply what they have learned about mathematics to analyze more abstract concepts, such as capacity, weight, time, equal shares, surveys, and the structure of patterns.

Theme 8	Week 4	Measuring Capacity and Weight
Theme 9	Week 1	Measuring Time
	Week 2	Classifying Patterns