

Mathematical Emphasis Checklist – Kindergarten

Kindergarten *Numbers correspond to the checklist for each unit located in the Assessment Sourcebook. Mathematics <i>Students will achieve the following objectives through problem solving situations.</i>	Mathematical Thinking K	Pattern Trains & Hopscotch Paths	Collecting, Counting, & Measuring	Counting Ourselves & Others	Making Shapes & Building Blocks	How Many in All?
A. Mathematical Process						
Communicate mathematical ideas in a variety of ways using appropriate mathematical vocabulary, symbols, and notations.	1, 7, 11	12	6, 10, 11, 15	4, 5, 9	2, 17	4, 12
Explain solutions to problems clearly and logically in oral and written work and support the solutions with evidence.		5, 7				4
Connect mathematical learning with other subjects.						
B. Number and Operations						
Represent, order, and explain whole numbers, decimals, and fractions.	2-6		1-6, 11, 12, 14, 15	1-3, 8, 10		1-3, 10
Use appropriate computational procedures.	1	7	13	16		4, 11-17
Estimate to determine if results are reasonable.						17
C. Geometry						
Use spatial reasoning and visualization.	9	1			1-3, 6-10, 12-21	9
Describe characteristics of two and three dimensional figures, i.e. circles, trapezoids, spheres.	9	1, 2		4, 5	1, 3-6, 10, 15, 16	
Identify properties and relations such as symmetry and congruence.						
Use simple coordinate systems.						
D. Measurement						
Recognize and use appropriate tools for measuring a variety of attributes, i.e. length, weight, time to the nearest degree of accuracy.	1, 8		7, 8, 10			6-8
Compare and convert measurements using U.S. standard and metric systems.						5
Determine measurements by using basic relationships such as area and perimeter and determine approximate measurements by using estimation.						
E. Statistics & Probability						
Collect, organize, and display data in the context of real world situations.	10	6		6-11, 16		3, 6, 16
Read, extract, and use information presented in graphs, tables, or charts.				12, 13, 14		4
Predict outcomes using data from a variety of sources.						
F. Algebraic Relationships						
Use the vocabulary, symbols, and notation of algebra accurately.	1					
Use patterns, expressions, equations, and/or inequalities to represent and solve problems in a variety of ways.		2-11, 14			11	11, 16
Recognize and use properties and relationships of arithmetic.						