

GUIDE FOR BENCHMARKS

MATHEMATICS


Kindergarten

KINDERGARTEN MATHEMATICS

NUMBERS, NUMBER SENSE, AND COMPUTATION			
NV Standards	First Trimester	Second Trimester	Third Trimester
		Estimate the number of objects in a set of 10 and verify by counting [1.9]	→
			Use number sense, computation, and estimation to solve mathematical and real-world problems [1.10]
	Recognize number words, 0-10 [1.5]	→	→
			Compare two sets to determine the difference (subtraction) [1.8]
1.K.3			Recognize relationships of more than, less than, and equal to [1.4]
1.K.3	Recognize, read, and write numbers from 0-10 [1.1]	→	→
1.K.3		Identify ordinal positions first to third [1.2]	→
1.K.3	Match the number of objects in a set to the correct numeral 0-10 [1.3]	→	→
1.K.4	Count to 20 by demonstrating one-to-one correspondence using objects [1.6]	→	→
1.K.5			Use concrete objects to model simple addition and subtraction [1.7]

PATTERNS, FUNCTIONS, AND ALGEBRA			
NV Standards	First Trimester	Second Trimester	Third Trimester
	Recognize, replicate, and extend repeating patterns [2.3]	→	→
	Create and describe patterns using objects, words, and numbers [2.2]	→	→

KEY

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A non-shaded box indicates the 12-week period when students should be proficient in CCSD specific curriculum objectives.




An arrow indicates mastery of the skill/concept will be maintained through teacher review and guided and independent practice.

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PATTERNS, FUNCTIONS, AND ALGEBRA (Continued)	
NV Standards	Second Trimester
2.K.1	Identify attributes used to sort objects [2.1] →
2.K.3	Identify and create sets of objects with unequal amounts, describing them as greater than or less than [2.4] →

MEASUREMENT	
NV Standards	Second Trimester
3.K.1	Compare, order, and describe objects by size [3.1] →
3.K.4	Identify day, month, and year using a calendar [3.3]
3.K.6	Recite in order the days of the week [3.4] →

SPATIAL RELATIONSHIPS, GEOMETRY, AND LOGIC	
NV Standards	Second Trimester
4.K.1	Identify two-dimensional shapes (circles, triangles, rectangles including squares) regardless of orientation [4.1] →
4.K.2	Demonstrate an understanding of relative position words, including before/after, far/near, and over/under, to place two objects [4.2] →
4.K.3	Identify two-dimensional figures (windows are shaped like rectangles) as they appear in the environment [4.3] →

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SPATIAL RELATIONSHIPS, GEOMETRY, AND LOGIC (Continued)			
NV Standards	First Trimester	Second Trimester	Third Trimester
4.K.4		Identify three-dimensional figures in the environment (sphere, cylinder, rectangular prism, cube, cone) [4.4]	→
4.K.9		Sort and classify objects by shape and color [4.5]	→
4.K.9		Put events in a logical sequence [4.6]	→

DATA ANALYSIS			
NV Standards	First Trimester	Second Trimester	Third Trimester
5.K.1			Collect, organize, and record data [5.1]
5.K.1			Represent data in a variety of ways in response to questions posed by teachers [5.2]
5.K.1			Describe and compare information (data) on graphs made with objects, pictures, or numbers [5.3]

PROBLEM SOLVING			
NV Standards	First Trimester	Second Trimester	Third Trimester
A.K-2	←	Select, modify, develop, and apply strategies to solve a variety of mathematical and practical problems and to investigate and understand mathematical concepts [A.1]	→
A.K-2	←	Apply previous experience and knowledge to new problem solving situations [A.2]	→
A.K-2	←	Formulate their own problems; use various approaches to investigate and solve problems [A.3]	→

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PROBLEM SOLVING (Continued)		
NV Standards	First Trimester	Second Trimester
A.K-2	← Explain and verify results with respect to the original problem [A.4]	Third Trimester →
A.K-2	← Try more than one strategy when the first strategy proves to be unproductive [A.5]	→
A.K-2	← Use technology, including calculators, to develop mathematical concepts (e.g., skip counting and pattern exploration) [A.6]	→

MATHEMATICAL COMMUNICATION		
NV Standards	First Trimester	Second Trimester
B.K-2	← Discuss and exchange ideas about mathematics as a part of learning [B.1]	Third Trimester →
B.K-2	← Use inquiry techniques (e.g., discussion, questioning, research, data gathering) to solve mathematical problems [B.2]	→
B.K-2	← Use physical materials, models, pictures, or writing to represent and communicate mathematical ideas [B.3]	→
B.K-2	← Explain and justify thinking about mathematical ideas and solutions [B.4]	→
B.K-2	← Use everyday language, both orally and in writing, to explain thinking about strategies and solutions to mathematical problems [B.5]	→
B.K-2	← Express mathematical ideas and use them to define, compare, and solve problems orally and in writing [B.6]	→
B.K-2	← Use mathematical notation to communicate and explain mathematical situations (e.g., words, phrases, symbols) [B.7]	→

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MATHEMATICAL COMMUNICATION (Continued)		
NV Standards	First Trimester	Second Trimester
B.K-2	←	Read a variety of fiction and non-fiction texts to learn about mathematics [B.8]
		Third Trimester
		→

MATHEMATICAL REASONING		
NV Standards	First Trimester	Second Trimester
C.K-2	←	Justify and explain the solutions to problems using physical models [C.1]
C.K-2	←	Use patterns and relationships to analyze mathematical situations; draw logical conclusions about mathematical problems [C.2]
C.K-2	←	Ask questions to reflect on, clarify, and extend their thinking [C.3]
C.K-2	←	Determine relevant, irrelevant, and/or sufficient information to solve mathematical problems [C.4]
C.K-2	←	Discuss the steps used to solve a mathematical problem [C.5]
		Third Trimester
		→

MATHEMATICAL CONNECTIONS		
NV Standards	First Trimester	Second Trimester
D.K-2	←	Link new concepts to prior knowledge [D.1]
D.K-2	←	Integrate mathematics with other disciplines [D.2]
D.K-2	←	Apply mathematical thinking and modeling to solve problems that arise in other disciplines, such as rhythm in music and motion in science [D.3]
D.K-2	←	Identify, explain, and use mathematics in everyday life [D.4]
		Third Trimester
		→

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