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KANSAS STATE DEPARTMENT OF **EDUCATION**

Navigating Change 2020 PRE-K-2 Grade Band

Math Classification			Grades Pre–K- 2				
			Competency	Standards			
				PreK	K	1	2
Counting and Cardinality	P1.1		Demonstrate an understanding of numbers with proficiency to rote count, order, compare, subitize, match objects to and write numbers.	PreK.CC.1,2,3		1.NBT.1	
	P1.2		Rote count, identify, and write numbers (within a given range) PreK.CC.1,2,3,				
	P1.3		Demonstrate the relationship between numbers and quantities starting with concrete representations and moving to the abstract (within a given range) PreK.CC.4.(a-d)	PreK.CC.5.	K.CC.4.(a,d).5		
	P1.4		Compare numbers (within a given range)	PreK.CC.6.7.8	K.CC.6,7		
	P1.5		Begin to demonstrate an understanding of whole number relationships and place value, including grouping 10s and ones.			1.NBT.2	
Operations and Algebraic Thinking	P2.1		Demonstrate the ability to compute accurately a. Make reasonable estimates b. Understand meanings of operations c. Use algebraic notation to represent and analyze patterns and relationships				
	P2.2		Demonstrate an understanding of addition and subtraction with the use of objects, images or sounds	PreKOA.1.2.3	K.OA.1,2,3,4	1.OA.1.2	2.OA.1
	P2.3		Apply the properties of operation and the relationship between addition and subtraction			1.OA.3.4.5	
	P2.4		Identify equal groups of objects to gain foundations for multiplication				2.OA.3,4
	P2.5		(Extended) Solve equations using addition and subtraction			1.OA.7,8	
Required Fluency	P3.1		Demonstrate the ability to quickly and accurately verbalize and compute fact fluency (within a range of numbers)		K.OA.5	1.OA.6	2.OA.2 2.NBT.5
Numbers and Operations in Base Ten	P4.1		Demonstrate the ability to think flexibly about whole numbers and be able to represent quantities with an understanding of place value				
	P4.2		Demonstrate an understanding of composing and decomposing numbers (within a given range) using manipulatives, drawings and equations.		K.NBT.1		
	P4.3		Rote Count, identify, compare and write numbers (within a given range).			1.NBT.3	2.NBT.2.3.4
	P4.4		Demonstrate an understanding of place value and show flexibility in composing and decomposing numbers (within a given range).				2.NBT.1(a-c)

	P4.5	Show an understanding of place value and properties of operations to add and subtract in various ways (concrete models, equations, mental math).				1.NBT.4(a-c),5,6	2.NBT.5,6,7,8,9
Measurement and Data	P5.1	Demonstrate the ability to understand the systems and processes of measurement, and use appropriate techniques, tools, units and formulas in making measurements					
	P5.2	Describe and compare objects using measurable attributes.	PreK MD,1,2	K.MD.1.2	1.MD.1,2	2.MD 1,2,3,4
	P5.3	Measure and estimate lengths in standard units.			1.MD.1,2	2.MD.1,2,3,4
	P5.4	(Extended) Represent and interpret (Analyze)data.	PreK.MD.3,4	K.MD.3	1.MD.3	2.MD.10,11
	P5.5	(Extended)Classify and interpret data within multiple categories.			1.MD.4	
	P5.6	(Extended)Use addition and subtraction to solve problems using length while also interpreting and creating data points in multiple units.				2.MD.5,6,8,9,10,11
Geometry	P6.1	Demonstrate the ability to investigate the characteristics and properties of two and/or three-dimensional geometric shapes and apply transformations and symmetry in geometric situations.				
	P6.2	Identify and describe shapes.	PreK.G.1,2,3	K.G.1,2,3		
	P6.3	(Extended) Analyze, compare, and compose two- or three-dimensional shapes by building, drawing, or modeling.	PreK.G.4,5	K.G.4,5,6		
	P6.4	Distinguish attributes of shapes and partition shapes into equal parts.			1.G.1,2,3	2.G.1,2,3

MATHEMATICAL PRACTICES Problem Solving, Modeling and Communicating Reasoning	Demonstrate the ability to use the eight mathematical practices fluidly across skills and concepts 1) Make sense of problems and persevere in solving them. 2) Reason abstractly and quantitatively. 3) Construct viable arguments and critique the reasoning of others. 4) Model with Mathematics. 5) Use appropriate tools strategically 6) Attend to precision 7) Look for and make use of structure 8) Look for and express regularity in repeated reasoning.