Grade K Mathematics – Unit 1: Counting Numbers 0-10

Phoenixville Area School District

	Stage 1 Desired Resu	llts		
 PA Core Standards: CC.2.1.K.A.1 Know number names and write and recite the count sequence. CC.2.1.K.A.2 Apply one- to-one correspondence to count the number of objects. CC.2.1.K.A.3 Apply the concept of magnitude to compare numbers and quantities. CC.2.4.K.A.4 Classify objects and count the number of objects in each category. 	 Tran TRANSFER GOALS Students will be able to independently use their learn Number Sense: Develop a sound foundation their various representations, relationships, a Mathematical Vocabulary: Interpret mathema engage in meaningful oral and written expres problem-solving methods, and rationale. 	nsfer ning to… to demonstrate the value of numbers by describing		
	Knowledge and Skills Acquisition			
	 KNOWLEDGE Students will Count groups of 0-10 Read and write the numerals 0-10 Match and sort Understand same and not the same 	 SKILLS Students will be skilled at Counting groups of objects 0-10. Reading and writing the numerals 0-10. Matching a manipulative to a given example. 		

 Pair u same Under less a Detern Know Under Use n values Pair u the sa Comp Decor Know object Know set of 		 Pair up sets of objects with other sets of the same quantity Understand the concept of one more, one less and same number Determine one more Know how many more Understand the meaning of less and fewer Use more and less to compare number values Pair up sets of one-to-one with other sets of the same quantity Compose numbers through 5 Decompose numbers through 5 Know that fingers can represent a set of objects up to 5 Know that fingers and toes can represent a set of objects up to 20 	 Pairing up sets of object the same quantity. Counting two groups of which has more or less Counting a group of ob another group with one Counting two groups of many more. Composing numbers tha set of given cubes two lesser numbers can manumbers (SB p. 10). Crossing off objects to 	ounting two groups of objects and explain hich has more or less/fewer. ounting a group of objects and show hother group with one more. ounting two groups of objects and tell how any more. omposing numbers through 5 by coloring set of given cubes two colors to show that sser numbers can make up greater	
		Stage 2 – Evidence			
Code A/M/T	Evaluative Criteria	Assessment Evidence			
	What criteria will be used in	PERFORMANCE TASK(S) Students will demonstrate understanding (meaning-making and transfer) through complex performance by Performance Task Chapter 1: Apply one-to-one correspondence to draw the number of objects.		Differentiation Considerations:	

	desired Students will create a robot that has 1 nose, 2 eyes, 3 ears, 4 arms and 5 different colored buttons (MIF page to use for robot body.) • Goal: Your task is to build a robot that has 1 nose, 2 eyes, 3 ears, 4 arms and 5 different colored buttons. • Role: You are an inventor. • Audience: Scientists		 One-on-one conferring Vocabulary Posters Individual goal setting Audio and visual supports Various questioning strategies Strategic partnering Flexible math groups Extra Practice
	 bears are back in the zoo. <i>Role:</i> You are a bear zookeeper. Audience: Other zookeepers <i>Situation:</i> You are the bear zookeeper. All the bears escaped from their pens. The other zookeepers need you to get the bears back into their matching-colored pens before the zoo opens. You must count the bears to make sure that all the bears are returned. The zookeeper must identify which group of bears has the most and which group of bears has the least. <i>Product:</i> The bear counters will be sorted by color and grouped together. The 		
		• <i>Role:</i> You are a bear zookeeper.	 Enrichment Space for movement and breaks Additional time as needed Review directions Restate information
		 other zookeepers need you to get the bears back into their matching-colored pens before the zoo opens. You must count the bears to make sure that all the bears are returned. The zookeeper must identify which group of bears has the most and which group of bears has the least. <i>Product:</i> The bear counters will be sorted by color and grouped together. The zookeeper will count the number of bears in the pen and place a number card next to the bears. Students will properly identify the group that is the least and the most. <i>Success Criteria:</i> Your bears will be sorted by color, counted accurately and the matching number will be represented. Students will properly identify the groups that 	

	 <i>Differentiation:</i> provide a colored mat for students that need it to sort. Provide an opportunity for students to get a 3 by providing a scenario where two colors have the most/least. Must identify that they have the most and explain why to get a 3. Performance Task Chapter 4: <i>Goal:</i> Your task is to make sure that you have all your pigs in the pig pen, given a certain number of pigs. <i>Role:</i> You are a pig farmer. <i>Audience:</i> Yourself <i>Situation:</i> You have 7 pigs. You see 3 by the fence. There are 2 pigs by the barn door. There is 1 in the mud puddle. Do you see all of your pigs? Show and tell how you know. <i>Product:</i> Complete task using a separate paper, white board, or manipulatives. <i>Success Criteria:</i> You will identify that 1 pig is missing. You will add the given numbers together and identify that not all pigs accounted for. <i>Differentiation:</i> Provide alternate scenarios: (1) You have 5 pigs. You see 1 by the fence. There are 2 pigs by the barn door. There is 1 in the mud puddle. Do you see all of your pigs? Show and tell how you pigs? Show and tell how you know. 	
A What criteria will be used in each assessment to evaluate attainment of the desired results?	OTHER EVIDENCE Math Skill Check (Marking Period 1): • Teacher checklist to record how high the student can count. • Teacher checklist to identify the name of the numerals 1-10. • Teacher checklist to identify numbers that come before and after a given number 1-10. Number Formation Assessment – paper/ pencil task or whiteboard "Make it 4 Ways" Worksheet - represent the relationship between numbers Chapter One MIF 2020 Virtual Assessment PowerPoint 2020 Chapter Two MIF 2020 Virtual Assessment PowerPoint 2020	Differentiation Considerations: IEP/ 504 plans Small group instruction One-on-one conferring Vocabulary Posters Individual goal setting Audio and visual supports Various questioning strategies Strategic partnering Flexible math groups Extra Practice Enrichment Space for movement and breaks Additional time as needed Review directions Restate information