NJDOE MODEL CURRICULUM PROJECT

CONTENT AREA: Mathematics

Bold

GRADE: K

UNIT: #2

UNIT NAME: Addition as "adding to" and Subtraction as "taking from"

	STUDENT LEARNING OBJECTIVES	CORRESPONDING CCSS				
1	Count and represent with a written numeral a number of objects to 10	K.CC.3	Write numbers from 0 to 20. Represent a number of objects with a written numeral 0- 20 (with 0 representing a count of no objects).			
2	Write numerals from zero to 10.					
3	Count to 30 by ones and tens.	K.CC.1	Count to 100 by ones and by tens.			
4	Count forward beginning from any given number up to 50 instead of having to begin at one.	K.CC.2	Count forward beginning from a given number within the known sequence (instead of having to begin at 1).			
5	Use objects or drawings to represent and solve addition and subtraction word problems (within 10)	K.OA.2	Solve addition and subtraction word problems, and add and subtract within 10, e.g., by using objects or drawings to represent the problem.			
6	Fluently add within 5.	K.OA.5	Fluently add and subtract within 5.			
7	Classify and sort objects into given categories and count the objects in each category (up to 10 objects).	K.MD.3	Classify objects into given categories; count the numbers of objects in each category and sort the categories by count.3			

Bold type indicates grade level fluency requirements. (Identified by PARCC Model Content Frameworks).

Selected Opportunities for Connection to Mathematical Practices type 1. Make sense of problems and persevere in solving them. SLO #5 Think about and make sense of the steps to solve addition and subtraction word problems. 2. Reason abstractly and quantitatively. SLO #1 Understand that the quantity of objects is represented by its corresponding written numeral. SLO #5 Think and reason about the quantities and their relationships to each other (either addition or subtraction) in word problems 3. Construct viable arguments and critique the reasoning of others. 4. Model with mathematics. 5. Use appropriate tools strategically. SLO #5 Consider and use available tools (drawings and diagrams) to help understand how to solve addition and subtraction word problems. 6. Attend to precision. 7. Look for and make use of structure. SLO #7 Use patterns or structure to classify objects and understand the numerical relationship between the classified objects. 8. Look for and express regularity in repeated reasoning.

Grade level: K				Subject: M	ath	Unit #: 2	
Dav	Tonic	SLO	Learning Objectives	Essential Questions	Suggested Student Activities		Possible Resources
Day	ropic	SLU	Learning Objectives	Essential Questions	Whole Group	Small Group / Stations	i ossibie resources
1	 Chapter 4 review Count to 12 Write numbers to 10 					 Differentiated intervention as needed Review Practice Independent Practice i-Ready 	 MyMath p.312- 316 Do your counting while waiting in line
2	 Addition Count to 12 not starting at 1 		To determine readiness for further content and focus on vocabulary	Do I know what I need to know for what is coming?		 Warm-up Lesson & Guided Practice Independent Practice i-Ready 	 MyMath p.319- 324 Do your counting while waiting for things to be cleaned up
3	 Addition stories Count to 19	2, 4,	To add one-digit numbers	How can I use objects to add?	Counting: Ensure students conceptualize the teens pattern. 20 is the beginning of the next pattern.	 Warm-up Lesson & Guided Practice Independent Practice i-Ready 	 MyMath p.325- 330 Do your counting like a countdown except going up
4	• Write numbers to 10	3	using stories			 Warm-up Lesson & Guided Practice Independent Practice i-Ready 	MyMath p.331-338
5	 Using the + symbol Count to 19 	2, 4, 5, 6	To recognize the meaning of the + symbol	How can symbols tell me		 Warm-up Lesson & Guided Practice Independent Practice i-Ready 	MyMath p.339-344, 443-448
6	 Using the = symbol Count to 19 not starting at 1 	2, 4, 5, 6	To recognize the meaning of the = symbol	what to do?		 Warm-up Lesson & Guided Practice Independent Practice i-Ready 	MyMath p.345-350

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Grade level: K			Subject: N	lath			
Day	Tonia	SI O	Learning Objectives	Essential Questions	Suggested	Student Activities	Possible Resources
Day	гори	SLU	Learning Objectives	Essential Questions	Whole Group	Small Group / Stations	T USSIDIE RESOUTCES
7	 The words "in all" Count to 29 Write numbers to 10 	2, 4, 5, 6	To define the words "in all" in mathematical terms	How can words tell me what to do?	While this is their first entre into key words, the best idea is to focus students on seeing what is happening in their mind, like a movie, instead of relying on key words that won't always mean the same thing.	 Warm-up Lesson & Guided Practice Independent Practice i-Ready 	MyMath p.351-356
8	 Making a number sentence Count to 29 not starting at 1 	2, 4, 5, 6	To take real world events and write them as an operation with numbers	How can I show, with math, what is happening?	Counting: Ensure students conceptualize the patterns by 10s	 Warm-up Lesson & Guided Practice Independent Practice i-Ready 	MyMath p.357-362
9	Addition					 Review Assessment	
10	Making 10sCount to 30	2, 4, 5, 6	To determine the number needed to add to another number to make 10	How can I make 10 quickly with the number I already have?	This standard is not listed in the SLOs for this unit, but it's in the book here and easy to address, you have time	 Warm-up Lesson & Guided Practice Independent Practice i-Ready 	MyMath p.363-370 <u>MathPlayground</u> <u>SnappyMaths</u> <u>YouTube</u> BrainPongamas
11	• Write numbers to 10		This is such an important concept days on it to ensure they are flue	ot for students, please take two ent and have mastered it.	to do it, and it is a crucial skill for students that should be addressed at every opportunity	 Warm-up Lesson & Guided Practice Independent Practice i-Ready 	<u>Brann opganies</u>
12	 Addition Count to 30 not starting at 1 	1, 2, 3, 4, 5, 6	To determine weaknesses for improvement			 Differentiated intervention as needed Review Practice Independent Practice i-Ready 	MyMath p.369-374
13	Addition	1, 2, 3, 4, 5, 6				 Review Assessment	
14	 Subtraction Count to 39 Write numbers to 10 not starting at 0 		To determine readiness for further content	What do I know so far?	Counting: Ensure students conceptualize the patterns by 10s	 Warm-up Lesson & Guided Practice Independent Practice i-Ready 	MyMath p.377-382

(Grade level: K			Subject: M	lath	Unit #: 2	
Day	Tonic	SLO	Learning Objectives	Essential Questions	Suggested Student Activities		Possible Resources
Day	Торіс	SLU	Learning Objectives	Essential Questions	Whole Group	Small Group / Stations	T USSIDIE Resources
15	• Subtraction stories	5.6	To subtract one-digit	How can I use objects to		 Warm-up Lesson & Guided Practice Independent Practice i-Ready 	MyMath p.383-388
16	starting at 1	5,0	numbers using stories	subtract?		 Warm-up Lesson & Guided Practice Independent Practice i-Ready 	MyMath p.389-396
17	 Using the – symbol Count to 40 	5, 6	To recognize the meaning of the - symbol	How can symbols tell me		 Warm-up Lesson & Guided Practice Independent Practice i-Ready 	MyMath p.397-402
18	 Using the = symbol in subtraction Count to 49 	5, 6	To recognize the meaning of the = symbol	what to do?	Counting: Ensure students conceptualize the patterns by 10s	 Warm-up Lesson & Guided Practice Independent Practice i-Ready 	MyMath p.403-408
19	 The words "are left" Count to 49 not starting at 1 	5, 6	To define the meaning of the words "are left"	How do words tell me what to do?		 Warm-up Lesson & Guided Practice Independent Practice i-Ready 	MyMath p.409-414
20	 Making a number sentence using subtraction Count to 50 Write numbers to 10 not starting at 0 	5, 6	To take real world events and write them as an operation with numbers	How can I show, with math, what is happening?		 Warm-up Lesson & Guided Practice Independent Practice i-Ready 	MyMath p.415-420

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Davi	Tonio	SLO	Learning Objectives	Essential Questions	Suggested	Student Activities	Possible Deseurces	
Day	Горіс	SLU	Learning Objectives	Essential Questions	Whole Group	Small Group / Stations	i ossibie Resources	
21	• Taking apart 10s	5.6	To determine the number	How can I make 10 quickly	The other direction of the foundational Making 10s. Reminding them of their Making 10s bonds is a good idea.	 Warm-up Lesson & Guided Practice Independent Practice i-Ready 	MyMath p.421-426 GregTeng	
22	starting at 1	3,0	taken from 10	have?		 Warm-up Lesson & Guided Practice Independent Practice i-Ready 		
23	Subtraction	1, 2, 3, 4, 5, 6	To determine weaknesses for improvement			 Differentiated intervention as needed Review Practice Independent Practice i-Ready 	MyMath p.427-432	
24	Subtraction	1, 2, 3, 4, 5, 6				 Review Assessment		
25	Sorting and counting	7	To sort items by characteristics and count the number in each group	How do I know there is	This is not in the book. You will need to improvise items and sorting activities	 Warm-up Lesson & Guided Practice Independent Practice i-Ready 		
26	Classifying and removing		To start with a group and determine how many of a specific category have been removed	others?		 Warm-up Lesson & Guided Practice Independent Practice i-Ready 		
31								
32								
Word	l Wall Candidates Are left Add	Ta Plu	ke away 1s	Minus In all	Subtract Join	- + =		

•	Grade level:	K				Su	bject:	Math		Unit #: 2	
Dav	Tonic		SLO	Learning Object	tives	Fesential	Essential Questions		Suggested	Student Activities	Possible Resources
Day	Тори		SLU			Listitiai	Questions	Who	ole Group	Small Group / Stations	i ossibie Resources
Auth	Authentic Application Your Goal: To count how many students in the class have the same characteristic and how many are left that do not The Situation: Decide on two characteristics of students in the class, like hair color, or shirt color that day, or something you think up										
	ne Situation:	Pick ou Count Subtra- how m	on two it 10 stu how ma ct to find any don	dents to use for you ny students are in t d out how many stu 't have either chara	dents in dents in cteristic	o that has each your group do	e nair coio n character o not have	istic and ho	w many has b eristic, how m	oth characteristics nany don't have the other o	haracteristic, and
١	Your product:	List you	ur result	s in the boxes like s	hown be	elow					
		Draw	the cha box	aracteristics in the es below	Ho studer cha	ow many Its have each racteristic	How student hav charad	many s do not e the teristic			

Success Criteria: You have to count accurately, show your subtraction, and give the numbers in the boxes neatly.