Foundations of Counting						
	1. Know number names and the count sequence.					
1. Count forward orally from	0 to 100 by ones and tens. Co	ount backward orally from 10	) to 0 by ones.			
1 <sup>st</sup> nine weeks	2 <sup>nd</sup> nine weeks	3 <sup>rd</sup> nine weeks	4 <sup>th</sup> nine weeks			
Count to 21 by ones	Count to 50 by ones,	Count to 100 by ones,	Count to 100 by tens			
	Count backward 5 to 0	Count backward 10 to 0				
2. Count to 100 by ones beg	inning with any given numbe	r between 0 and 99.				
1 <sup>st</sup> nine weeks	2 <sup>nd</sup> nine weeks	3 <sup>rd</sup> nine weeks	4 <sup>th</sup> nine weeks			
	From any number to 21	From any number to 50	From any number to 99			
3. Write numerals from 0 to 2	0.					
1 <sup>st</sup> nine weeks	2 <sup>nd</sup> nine weeks	3 <sup>rd</sup> nine weeks	4 <sup>th</sup> nine weeks			
	Write numbers 0 to 10	Write numbers 0-20	Count a set of objects and write			
	correctly with a model	correctly with a model	the corresponding number 0-20			
			correctly			
a. Represent 0-20 using cond	crete objects when given a w	rritten numeral from 0 to 20				
Identify a numeral 0-5 and	Identify a numeral 0-10	Identify a numeral 0-20	Same as 3 <sup>rd</sup> nine weeks			
make a matching set	and make a matching set	and make a matching set				
	2. Count to tel	I the number of objects.				
4. Connect counting to card	inality using a variety of cond	crete objects.				
1 <sup>st</sup> nine weeks	2 <sup>nd</sup> nine weeks	3 <sup>rd</sup> nine weeks	4 <sup>th</sup> nine weeks			
a. Say the number names in	a. Say the number names in consecutive order when counting objects.					
Touch and count objects	Touch and count objects	Touch and count objects				
accurately to 10	accurately to 15	accurately to 20				
b. Indicate that the last numb	per name said tells the numbe	r of objects counted in a set.				
Count to tell the total of	Count to tell the total of	Count to tell the total of				
objects up to 10	objects up to 15	objects up to 20				

c. Indicate that the number of counted.	f objects in a set is the same	regardless of their arrangeme	ent or the order in which they were
Count and tell the number	Count and tell the	Count and tell the number	
of objects to 10 when	number of objects to 15	of objects to 20 when	
mixed up	when mixed up	mixed up	
d. Explain that each success	ive number name refers to a o	quantity that is one larger.	
Tell the total is one larger	Tell the total is one larger	Tell the total is one larger	
when adding one more	when adding one more	when adding one more	
object to a set up to 10	object to a set up to 15	object to a set up to 20	
5. Count to answer "how ma	ny?" questions.		
1 <sup>st</sup> nine weeks	2 <sup>nd</sup> nine weeks	3 <sup>rd</sup> nine weeks	4 <sup>th</sup> nine weeks
a. Count using no more than	20 concrete objects arranged	l in a line, a rectangular array,	, or a circle
Count to 10 in any	Count to 15 in any	Count to 20 in any	
arrangement	arrangement	arrangement	
b. Count using no more than	10 concrete objects in a scat	tered configuration	
		Count objects in a	
		scattered configuration to	
		10	
c. Draw the number of object	ts that matches a given nume	ral from 0 to 20	
Identify a numeral 0-5 and	Identify a numeral 0-10	Identify a numeral 0-20	
draw a matching set	and draw a matching set	and draw a matching set	
	3. Co	mpare numbers.	
			/fewer than, or equal/the same as g matching, counting, or other
1 <sup>st</sup> nine weeks	2 <sup>nd</sup> nine weeks	3 <sup>rd</sup> nine weeks	4 <sup>th</sup> nine weeks
Tell a group of objects up	Tell a group of objects up		
to 5 is greater than, less	to 10 is greater than, less		
than, or the same as	than, or the same as		
another group	another group		

7. Compare two numbers between 0 and 10 presented as written numerals (without using inequality symbols).				
1st nine weeks	2nd nine weeks	3rd nine weeks	4th nine weeks	
Tell a numeral 0 to 5 is	Tell a numeral 0 to 10 is			
greater than, less than, or	greater than, less than, or			
the same as another	the same as another			
numeral	numeral.			

Operations and Algebraic Thinking					
4. Understand addition			as taking apart and taking from.		
8. Represent addition and s		e objects, fingers, pennies, men			
1 <sup>st</sup> nine weeks	2 <sup>nd</sup> nine weeks	3 <sup>rd</sup> nine weeks	4 <sup>th</sup> nine weeks		
	Represent addition and subtraction using a variety of strategies up to 5	Represent addition and subtraction using a variety of strategies up to 10			
9. Solve addition and subtra represent the problem.	ction word problems, and add a	and subtract within 10, by using	concrete objects or drawings to		
1 <sup>st</sup> nine weeks	2 <sup>nd</sup> nine weeks	3 <sup>rd</sup> nine weeks	4 <sup>th</sup> nine weeks		
	Can solve + and - word problems within 5 with objects or drawings	Can solve + and – word problems within 8 with objects or drawings	Can solve + and – word problems within 10 with objects or drawings		
	10. Decompose numbers less than or equal to 10 into pairs of smaller numbers in more than one way, by using concrete objects or drawings, and record each decomposition by a drawing or equation. Example: 5 = 2 + 3 and 5 = 4 + 1				
1 <sup>st</sup> nine weeks	2 <sup>nd</sup> nine weeks	3 <sup>rd</sup> nine weeks	4 <sup>th</sup> nine weeks		
	Break apart numbers up to 5 and record by drawing	Break apart numbers up to 8 and record by drawing	Break apart numbers up to 10 and record by drawing or writing an equation		

11. For any number from 0 to 10, find the number that makes 10 when added to the given number, by using concrete objects or drawings, and record the answer with a drawing or equation.				
1 <sup>st</sup> nine weeks	2 <sup>nd</sup> nine weeks	3 <sup>rd</sup> nine weeks	4 <sup>th</sup> nine weeks	
		Determine how many more are needed to make 10 using objects or drawings	Determine how many more are needed to make 10 using objects or drawings and record using a drawing or equation	
12. Fluently add and subtract within 5 (up to 5 seconds).				
1 <sup>st</sup> nine weeks	2 <sup>nd</sup> nine weeks	3 <sup>rd</sup> nine weeks	4 <sup>th</sup> nine weeks	
	Mentally add and subtract up to 3 flexibly, accurately, and efficiently	Mentally add and subtract up to 4 flexibly, accurately, and efficiently	Mentally add and subtract up to 5 flexibly, accurately, and efficiently	
	5. Underst	and simple patterns.		
13. Duplicate and extend sin	nple patterns using concrete of	ojects.		
1 <sup>st</sup> nine weeks	2 <sup>nd</sup> nine weeks	3 <sup>rd</sup> nine weeks	4 <sup>th</sup> nine weeks	
Recognize and duplicate a pattern in a variety of ways	Duplicate and extend simple repeating patterns			

Operations with Numbers					
	6. Work with numbers 11-19 to gain foundations for place value.				
14. Compose and decompose numbers from 11 to 19 by using concrete objects or drawings to demonstrate understanding that these numbers are composed of ten ones and one, two, three, four, five, six, seven, eight, or nine ones.					
1 <sup>st</sup> nine weeks	2 <sup>nd</sup> nine weeks	3 <sup>rd</sup> nine weeks	4 <sup>th</sup> nine weeks		
	make and break apart teen				
		numbers using tens and			

# Math Learning Progressions – Kindergarten

	ones with objects or	
	drawings	

Data Analysis					
	7. Collect and analyze d	lata and interpret results.			
15. Classify objects into given categories of 10 or fewer; count the number of objects in each category and sort the categories by count.					
1 <sup>st</sup> nine weeks	2 <sup>nd</sup> nine weeks	3 <sup>rd</sup> nine weeks	4 <sup>th</sup> nine weeks		
sort objects into categories	sort objects into categories, count each set, and sort the categories by count according to quantity				
a. Categorize data on Venn diagrams, pictographs, and "yes-no" charts using real objects, symbolic representations, or pictorial representations.					
Participate in data collection using a Venn diagram or yes/no chart	Represent data using a pictograph				

Measurement					
	8. Describe and compare measurable attributes.				
16. Identify and describe measurable attributes (length, weight, height) of a single object using vocabulary such as long/short, heavy/light, or tall/short.					
1 <sup>st</sup> nine weeks	2 <sup>nd</sup> nine weeks	3 <sup>rd</sup> nine weeks	4 <sup>th</sup> nine weeks		
	Use words to tell how Long/short, heavy/light, or tall/short				

5

# Math Learning Progressions – Kindergarten

17. Directly compare two objects with a measurable attribute in common to see which object has "more of" or "less of" the attribute and describe the difference. Example: Directly compare the heights of two children and describe one child as "taller" or "shorter."				
1 <sup>st</sup> nine weeks	2 <sup>nd</sup> nine weeks	3 <sup>rd</sup> nine weeks	4 <sup>th</sup> nine weeks	
Compare two objects and describe the measurable similarities and differences				

		Geometry				
9.Identify and des	9.Identify and describe shapes (squares, circles, triangles, rectangles, hexagons, cubes, cones, cylinders, and spheres).					
18. Describe objects in the terms such as above	environment using names o , below, beside, in front of,	of shapes, and describe the relative   behind, and next to.	positions of these objects using			
1 <sup>st</sup> nine weeks	2 <sup>nd</sup> nine weeks	3 <sup>rd</sup> nine weeks	4 <sup>th</sup> nine weeks			
Use position words to tell about the shapes and objects in the environment						
19. Correctly name shapes	regardless of their orientati	ions or overall sizes.				
1 <sup>st</sup> nine weeks	2 <sup>nd</sup> nine weeks	3 <sup>rd</sup> nine weeks	4 <sup>th</sup> nine weeks			
		Tell the name of 2D shapes: squares, circles, triangles, rectangles, hexagons Tell the name of 3D shapes: cubes, cones, cylinders, and spheres				
20. Identify shapes as two-	limensional (lying in a plan	e, "flat") or three-dimensional ("solid	1").			
1 <sup>st</sup> nine weeks	2 <sup>nd</sup> nine weeks	3 <sup>rd</sup> nine weeks	4 <sup>th</sup> nine weeks			
		Tell if a shape is two-dimensional or three-dimensional				

6

		mpare, create, and compose shapes.	
to describe their s	re two- and three-dimensional	shapes, in different sizes and orienta (number of sides and vertices or "cor	
1 <sup>st</sup> nine weeks	2 <sup>nd</sup> nine weeks	3 <sup>rd</sup> nine weeks	4 <sup>th</sup> nine weeks
		Use words to compare similarities and differences between two- and three-dimensional shapes	
22. Model shapes in the	world by building them from s	sticks, clay balls, or other component	s and by drawing them.
1 <sup>st</sup> nine weeks	2 <sup>nd</sup> nine weeks	3 <sup>rd</sup> nine weeks	4 <sup>th</sup> nine weeks
		Draw and model two-dimensional shapes Build three-dimensional shapes	
23. Use simple shapes t rectangle.	o compose larger shapes. Exa	ample: Join two triangles with full side	es touching to make a
1 <sup>st</sup> nine weeks	2 <sup>nd</sup> nine weeks	3 <sup>rd</sup> nine weeks	4 <sup>th</sup> nine weeks
		Combine shapes to make larger shapes	