Desired Results Developmental Profile–Kindergarten (DRDP-K) Correspondence to California Learning Standards: Cognition: Math (COG: MATH) and the California Preschool Learning Foundations (PLF)

The alignment between the DRDP-K Cognition: Math (COG: MATH) measures and the California Preschool Learning Foundations (PLF) indicates a significant correspondence in structure and content. Both the standards and measures focus on the same key concepts and skills in mathematics, including understanding of numbers, math operations, classification, measurement, patterning, and shapes. The COG: MATH measures describe the developmental progressions in each of the key areas of early mathematics development. One concept that the PLF addresses but is not explicitly represented in the DRDP-K COG: MATH measures is the ability to identify positions of objects and people in space (such as *up, down, inside, or above)*. Overall, each of the DRDP-K COG: MATH measures has a similar focus and corresponding developmental level as one or more of the foundations.

DRDP-K Measure	California Preschool Learning	Measure Corresponds with PLF
	Foundations (PLF) in	in the Following Ways:
	Mathematics	
COG: MATH 1: Classification Definition: Child shows an increasing ability to compare, match, and sort objects into groups according to their attributes	Algebra and Functions Children expand their understanding of sorting and classifying objects in their everyday environment. At around 60 months	Child sorts objects into groups based on one or two attributes, sometimes sorting by one attribute and then subdividing those groups based on a second attribute (Algebra and Functions 1.1).
	1.1 Sort and classify objects by one or more attributes, into two or more groups, with increasing accuracy (e.g., may sort first by one attribute and then by another attribute).	
COG: MATH 2: Number Sense of Quantity Definition: Child shows developing understanding of number and quantity	Number SenseChildren expand their understanding of numbers and quantities in their everyday environment. At around 60 months1.1 Recite numbers in order to twenty with increasing accuracy.	Child recites objects correctly up to 20 (Number Sense 1.1) .

Correspondence between the DRDP-K Instrument and the California Preschool Learning Foundations

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DRDP-K Measure	California Preschool Learning	Measure Corresponds with PLF
	Foundations (PLF) in	in the Following Ways:
	Mathematics	
COG: MATH 2: Number Sense of	Children expand their	Child reads numerals 0–20
Quantity (continued)	understanding of numbers and	(Number Sense 1.2).
Definition: Child shows	quantities in their everyday	Child identifies small quantities,
developing understanding of	months (continued)	without counting, up to four
number and quantity	1.2 Recognize and know the	(Number Sense 1.3).
number and quantity	name of some written numerals.	Child counts up to 10 objects
	1.3 Identify, without counting.	using one-to-one
	the number of objects in a	1.4).
	collection of up to four objects	Child chows understanding that
	(i.e., subitize).	the last number counted is the
	1.4 Count up to ten objects,	total number of objects in the
	using one-to-one	group (Number Sense 1.5).
	correspondence (one object for	Child compares by counting two
	increasing accuracy.	groups of objects (Number
	1 E Understand when counting	Sense 2.1).
	that the number name of the	Child solves simple everyday
	last object counted represents	problems involving numbers
	the total number of objects in	(Mathematical Reasoning 1.1).
	the group (i.e., cardinality).	
	Children expand their	
	understanding of number	
	relationships and operations in	
	around 60 months	
	2.1 Compare, by counting or	
	matching, two groups of up to	
	five objects and communicate,	
	"more," "same as," or "fewer"	
	(or "less").	
	Mathematical Reasoning	
	Children expand the use of	
	mathematical thinking to solve	
	everyday environment. At	
	around 60 months	
	1.1 Identify and apply a variety	
	of mathematical strategies to	
	solve problems in their	
	environment.	

DRDP-K Measure	California Preschool Learning	Measure Corresponds with PLF
	Foundations (PLF) in	in the Following Ways:
	Mathematics	
COG: MATH 3: Number Sense of	<u>Number Sense</u>	Child identifies the new number
Math Operations	Children expand their	of objects after one object is
	understanding of number	added or removed (Number
Definition: Child shows	relationships and operations in	Sense 2.2).
subtract small quantities of objects	their everyday environment. At around 60 months	Child demonstrates understanding that two groups
	2.2 Understand that adding one or taking away one changes the number in a small group of objects by exactly one.	can be put together to make a bigger group and that any group of objects can be taken apart into smaller groups (Number Sense 2.3).
	2.3 Understand that putting two groups of objects together will make a bigger group and that a group of objects can be taken	Child develops ability to solve addition and subtraction problems (Number Sense 2.4).
	apart into smaller groups. 2.4 Solve simple addition and subtraction problems with a small number of objects (sums up to 10), usually by counting.	subtraction word problems by using fingers or objects to represent numbers or by mental calculation (Mathematical Reasoning 1.1).
	Mathematical Reasoning	
	Children expand the use of mathematical thinking to solve problems that arise in their everyday environment. At around 60 months	
	1.1 Identify and apply a variety of mathematical strategies to solve problems in their environment.	

DRDP-K Measure	California Preschool Learning	Measure Corresponds with PLF
	Foundations (PLF) in	in the Following Ways:
	Mathematics	
COG: MATH 4: Measurement Definition: Child shows an increasing understanding of measurable properties such as size, length, weight, and capacity (volume), and how to quantify those properties	Measurement Children expand their understanding of comparing, ordering, and measuring objects. At around 60 months 1.1 Compare two objects by length, weight, or capacity directly (e.g., putting objects side by side) or indirectly (e.g., using a third object). 1.2 Order four or more objects by size. 1.3 Measure length using multiple duplicates of the same- size concrete units laid end to end. Mathematical Reasoning Children expand the use of mathematical thinking to solve problems that arise in their everyday environment. At around 60 months 1.1 Identify and apply a variety of mathematical strategies to solve problems in their	Child identifies differences in size, length, weight, or capacity between two objects using comparative words (Measurement 1.1). Child orders three or more objects by directly comparing them using a measurable property (Measurement 1.2). Child explores the properties of objects (e.g., size, length, weight, capacity) through the use of measurement tools with either standard units (e.g., ruler, scale) or nonstandard units (e.g., footsteps, blocks) (Measurement 1.3, Mathematical Reasoning 1.1).
COG: MATH 5: Patterning	Algebra and Functions	Child creates, copies, or extends
Definition: Child shows an increasing ability to recognize, reproduce, and create patterns of varying complexity	Children expand their understanding of simple, repeating patterns. At around 60 months 2.1 Recognize and duplicate simple repeating patterns. 2.2 Begin to extend and create simple repeating patterns.	complex patterns (Algebra and Functions 2.1). Child attempts to create simple repeating patterns (Algebra and Functions 2.2).

DRDP-K Measure	California Preschool Learning Foundations (PLF) in	Measure Corresponds with PLF in the Following Ways:
	Mathematics	
COG: MATH 6: Shapes Definition: Child shows an increasing knowledge of shapes and their characteristics	Geometry Children identify and use a variety of shapes in their everyday environment. At around 60 months 1.1 Identify, describe, and construct a variety of different shapes, including variations of a circle, triangle, rectangle, square, and other shapes. 1.2 Combine different shapes to create a picture or design.	Child identifies, names, and describes several shapes (Geometry 1.1). Child combines different shapes to create a design (Geometry 1.2).

Foundations in Mathematics not addressed by DRDP-K (2015) COG: MATH domain

• Geometry 2.1: Identify positions of objects and people in space, including in/on/under, up/down, inside/outside, beside/between, and in front/behind.

The COG: MATH domain contains no explicit reference to identifying positions of objects and people in space.