Desired Results Developmental Profile (DRDP-K) Correspondence to California Learning Standards: Cognition: Science (COG: SCI) and the Next Generation Science Standards (NGSS)

The DRDP-K Cognition: Science (COG: SCI) domain includes four key measures related to science: Cause and Effect; Inquiry through Observation and Investigation; Documentation and Communication of Inquiry; and Knowledge of the Natural World. These four measures in the DRDP-K cover key concepts and skills in the kindergarten (KG) science standards. An alignment between the DRDP-K and the science standards for kindergarten indicates a high-level correspondence in content. The measures in the DRDP-K focus on foundational concepts and skills that are covered in the NGSS for kindergarten, including the ability to ask key questions, make observations, analyze data, construct explanations, collect data, document observations, understand cause and effect, and understand key concepts related to the natural world. The early skills and concepts described in the KG science standards (in areas such as motion and stability, energy, biological structures and processes, Earth's system, Earth and human activity, and engineering design) can be assessed through the various COG: SCI measures in the DRDP-K. Some skills related to engineering such as designing and building are not covered in the DRDP-K science standards.

DRDP-K Measure	Next Generation Science	Measure Corresponds with
	Standards (NGSS)	NGSS in the Following Ways:
COG: SCI 1: Cause and Effect	K-PS2 Motion and Stability: Forces	Child demonstrates an
Definition: Child demonstrates an increasing ability to observe, anticipate, and reason about the relationship between cause and effect	and Interactions K-PS2-1. Plan and conduct an investigation to compare the effects of different strengths or different directions of pushes and pulls on the motion of an object.	understanding that variations in actions or degrees of actions with the same object cause different results (K-PS2-1) .
COG: SCI 2: Inquiry Through Observation and Investigation Definition: Child observes and investigates objects (living and nonliving things) and events in the environment and becomes increasingly sophisticated in pursuing knowledge about them	K-PS2 Motion and Stability: Forces and Interactions K-PS2-1. Plan and conduct an investigation to compare the effects of different strengths or different directions of pushes and pulls on the motion of an object.	Child demonstrates ability to plan and conduct investigations to answer specific questions (K-PS2- 1) .

Correspondence between the DRDP-K Instrument and the Next Generation Science Standards

DRDP-K Measure	Next Generation Science	Measure Corresponds with
	Standards (NGSS)	NGSS in the Following Ways:
COG: SCI 2: Inquiry Through	K-PS2 Motion and Stability: Forces	Child demonstrates ability to
Observation and Investigation	and Interactions (cont.)	conduct systematic observations
(continued)	K-PS2-2. Analyze data to determine	and investigations to collect data that provide evidence to answer
Definition: Child observes and	if a design solution works as	specific questions. Additionally,
investigates objects (living and	intended to change the speed or	the child demonstrates ability to
nonliving things) and events in	direction of an object with a push	provide a general description of
the environment and becomes	or a pull.	this process (K-PS2-2) .
increasingly sophisticated in pursuing knowledge about them	K-PS3 Energy	Child demonstrates ability to
	K-PS3-1 Make observations to	contribute to planning and can
	determine the effect of sunlight on	carry out detailed systematic
	Farth's surface	observations (K-PS3-1).
	K-PS3-2. Use tools and materials to	Child contributes to planning and
	design and build a structure that	carries out detailed observations
	will reduce the warming effect of	and investigations to answer
	sunlight on an area.	specific questions (K-PS3-2) .
	K-LS1 From Molecules to	Child conducts systematic
	Organisms: Structures and	observations and investigations
	Processes	(K-LS1-1).
		Child demonstrates ability to
	K-LSI-I. Use observations to	conduct systematic observations
	and animals (including humans)	and investigations that include
	and animals (including numans)	tracking changes over time (K-
		ESS2-1).
	K-ESS2 Earth's Systems	Child conducts detailed
	K-ESS2-1. Use and share	observations and complex
	observations of local weather	investigations to answer specific
	conditions to describe patterns	questions (K-ESS3-2).
	over time.	
	K-ESS3 Earth and Human Activity	
	K-ESS3-2. Ask questions to obtain	
	information about the purpose of	
	weather forecasting to prepare for,	
	and respond to, severe weather.	

DRDP-K Measure	Next Generation Science	Measure Corresponds with
	Standards (NGSS)	NGSS in the Following Ways:
COG: SCI 2: Inquiry Through Observation and Investigation (continued) Definition: Child observes and investigates objects (living and nonliving things) and events in the environment and becomes increasingly sophisticated in pursuing knowledge about them	 K-2-ETS Engineering Design K-2-ETS1-1. Ask questions, make observations, and gather information about a situation people want to change to define a simple problem that can be solved through the development of a new or improved object or tool. K-2-ETS1-3. Analyze data from tests of two objects designed to solve the same problem to compare the strengths and weaknesses of how each performs. 	Child demonstrates ability to contribute to planning and carries out detailed and systematic observations and complex investigations to answer questions of interest and specific questions on scientific topics (K- 2-ETS1-1). Child demonstrates ability to contribute to planning and can carry out detailed and systematic observations and complex investigations to answer questions of interest and specific questions on scientific topics by use of comparing data findings (K-2-ETS1-3).
COG: SCI 3: Documentation and Communication of Inquiry Definition: Child develops the capacity to describe and record observations and investigation about objects (living and nonliving things) and events, and to share ideas and explanations with others	 K-PS2 Motion and Stability: Forces and Interactions K-PS2-2. Analyze data to determine if a design solution works as intended to change the speed or direction of an object with a push or a pull. K-LS1 From Molecules to Organisms: Structures and Processes K-LS1-1. Use observations to describe patterns of what plants and animals (including humans) need to survive. 	Child identifies patterns by summarizing recorded data and constructs explanations based on recorded evidence. Additionally, the child demonstrates ability to provide a general description of the process (K-PS2-2) . Child demonstrates ability to identify patterns by summarizing recorded data (K-LS1-1) .

DRDP-K Measure	Next Generation Science	Measure Corresponds with
	Standards (NGSS)	NGSS in the Following Ways:
COG: SCI 3: Documentation and	K-ESS2 Earth's Systems	Child demonstrates ability to
Communication of Inquiry		identify patterns by summarizing
(continued)	K-ESS2-1. Use and share	recorded data (K-ESS2-1).
	observations of local weather	
Definition: Child develops the	conditions to describe patterns	Child demonstrates ability to
capacity to describe and record	over time.	construct thoughtful
observations and investigation	K ESC2 2. Construct on ensurement	explanations based on recorded
about objects (living and	K-ESS2-2. Construct an argument	evidence (K-ESS2-2) .
nonliving things) and events, and	supported by evidence for how	
to share ideas and explanations	plants and animals (including	Child constructs thoughtful
with others	humans) can change the	explanations based on recorded
	environment to meet their needs.	evidence and communicates
	K ESS2 Forth and Human Activity	explanations to others (K-ESS3-
	K-ESSS Earth and Human Activity	3).
	K-ESS3-3. Communicate solutions	
	that will reduce the impact of	Child demonstrates ability to
	humans on the land water, air	information by tallying charting
	and/or other living things in the	simple graphing, or making
		complex drawings. Additionally,
	local childranicht.	the child communicates about
	K-2-ETS Engineering Design	findings, related ideas, or simple
		explanations (K-2-ETS1-2).
	K-2-ETS1-2. Develop a simple	
	sketch, drawing, or physical model	
	to illustrate how the shape of an	explanations based on recorded
	object helps it function as needed	evidence. Additionally, the child
	to solve a given problem.	demonstrates ability to identify
		patterns by summarizing
	K-2-ETS1-3. Analyze data from	recorded data (K-2-ETS1-3).
	tests of two objects designed to	
	solve the same problem to	
	compare the strengths and	
	weaknesses of how each performs.	

DRDP-K Measure	Next Generation Science	Measure Corresponds with
	Standards (NGSS)	NGSS in the Following Ways:
COG: SCI 4: Knowledge of the	K-LS1 From Molecules to	Child demonstrates knowledge of
Natural World	Organisms: Structures and	what living things need to survive
	Processes	(K-LS1-1).
Definition: Child develops the capacity to understand objects (living and nonliving things) and events in the natural world, including how they change and their characteristics	 K-LS1-1. Use observations to describe patterns of what plants and animals (including humans) need to survive. K-ESS2 Earth's Systems K-ESS2-1. Use and share observations of local weather conditions to describe patterns over time. K-ESS2-2. Construct an argument supported by evidence for how plants and animals (including humans) can change the environment to meet their needs. K-ESS3 Earth and Human Activity K-ESS3-1. Use a model to represent the relationship between the needs of different plants or animals (including humans) and the places they live. 	Child demonstrates knowledge of patterns that can be predicted in living things and in the natural environment (e.g., seasonal changes, movement of objects in the sky) (K-ESS2-1). Child has knowledge of what living things need to survive and the relationships between what they need and where they live (K- ESS2-2). Child has knowledge and uses models to demonstrate what living things need to survive and the relationships between what they need and where they live (K- ESS3-1).