



Kindergarten Individual Development Survey (KIDS) Correspondence to Illinois Learning Standards:

Cognition: Science (COG: SCI) and the Next Generation Science Standards (NGSS)

The KIDS¹ 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 KIDS cover key concepts and skills in the kindergarten (KG) science standards. An alignment between the KIDS and the science standards for kindergarten indicates a high level correspondence in content. The measures in the KIDS 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 KIDS. Some skills related to engineering such as designing and building are not covered in the KIDS science standards.

Correspondence between the KIDS Instrument and the Next Generation Science Standards

KIDS Measure	Next Generation Science Standards (NGSS)	Measure Corresponds with NGSS in the Following Ways:
COG: SCI 1: Cause and Effect Definition: Child demonstrates an increasing ability to observe, anticipate, and reason about the relationship between cause and effect.	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 an 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	K-PS2 Motion and Stability: Forces and Interactions K-PS2-1. Plan and conduct an	Child demonstrates ability to plan and conduct investigations to answer specific questions (K-PS2-

¹ Desired Results Developmental Profile-Kindergarten for the Kindergarten Individual Development Survey





KIDS Measure	Next Generation Science Standards (NGSS)	Measure Corresponds with NGSS in the Following Ways:
investigates objects (living and	investigation to compare the	1).
nonliving things) and events in	effects of different strengths or	
the environment and becomes increasingly sophisticated in	different directions of pushes and pulls on the motion of an object.	
pursuing knowledge about them.		





Education		
KIDS 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
(cont.)	K-PS2-2. Analyze data to determine	and investigations to collect data
Definition: Child observes and	if a design solution works as	that provide evidence to answer
investigates objects (living and	intended to change the speed or	specific questions. Additionally,
	,	the child demonstrates ability to
nonliving things) and events in the environment and becomes	direction of an object with a push	provide a general description of
	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
	Earth'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).
		a
	K-LS1-1. Use observations to	Child demonstrates ability to
	describe patterns of what plants	conduct systematic observations
	and animals (including humans)	and investigations that include
	need to survive.	tracking changes over time (K-
	K-ESS2 Earth's Systems	ESS2-1).
	N-LJJZ Laitii 5 Jysteiiis	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.	
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KIDS Measure	Next Generation Science	Measure Corresponds with
M.55 M.Edsar C	Standards (NGSS)	NGSS in the Following Ways:
COG: SCI 2: Inquiry Through Observation and Investigation (cont.) 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 construct 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).





KIDS Measure	Next Generation Science	Measure Corresponds with
11.25 11.503.1.5	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
(cont.)	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-ESS2-2. Construct an argument	explanations based on recorded
about objects (living and	supported by evidence for how	evidence (K-ESS2-2).
nonliving things) and events, and	plants and animals (including	Child constructs thoughtful
to share ideas and explanations	humans) can change the	explanations based on recorded
with others.	environment to meet their needs.	evidence and communicates
		explanations to others (K-ESS3-
	K-ESS3 Earth and Human Activity	3).
	K 5052 2 Communication of the	
	K-ESS3-3. Communicate solutions	Child demonstrates ability to
	that will reduce the impact of	participate in recording detailed
	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 environment.	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	Child constructs thoughtful
	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
	K 2 FTC1 2 Analysis data france	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.	
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	Next Generation Science	Measure Corresponds with
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COG: SCI 4: Knowledge of the Natural World 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.	Next Generation Science Standards (NGSS) 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. K-ESS2 Earth's Systems K-ESS2-1. Use and share observations of local weather conditions to describe patterns	Measure Corresponds with NGSS in the Following Ways: Child demonstrates knowledge of what living things need to survive (K-LS1-1). 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).
	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 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).

NGSS Learning Standard(s) not addressed by KIDS Domain

• N/A