

BENCHMARK REPORT

SCIENCE GRADE K



DOMAIN: Science

NGSS/ Aspire Practices	OCS Code:	Standards and Benchmarks	DOK
Standard: K. Forces and Interactions: Pushes and Pulls: K-PS2 Motion and Stability: Forces and Interactions			
Practice 3	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.	
	K-PS2-1.1b	Know the meaning of pushing, pulling, strength, direction, and movement of an object	2
	K-PS2-1.2b	Relate the strength or direction of an object being pushed and pulled to its movement	2
	K-PS2-1.3c	With support and guidance, investigate the changes in movement or direction of an object being pushed or pulled by following the steps of a very simple experiment	3
Practice 4	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-PS2-2.1c	With guidance and support, use data from a very simple model to predict whether speed will change when an object is pushed or pulled	3
	K-PS2-2.2c	With guidance and support, use data from a very simple model to predict whether direction will change when an object is pushed or pulled	3
Standard: K. Interdependent Relationships in Ecosystems: Animals, Plants, and Their Environment: K-LS1 From Molecules to Organisms: Structures and Processes			
Practice 4	K-LS1-1.	Use observations to describe patterns of what plants and animals (including humans) need to survive.	
	K-LS1-1.1b	Find examples of foods and the conditions that plants need to survive	2
	K-LS1-1.2b	Categorize the types of foods and conditions that plants need to survive	2
	K-LS1-1.3b	With guidance and support, make observations that show how two different foods or conditions lead to the survival of plants	2
	K-LS1-1.4b	Find examples of foods and conditions that animals (including humans) need to survive	2
	K-LS1-1.5b	Categorize the types of foods and conditions that animals (including humans) need to survive	2
	K-LS1-1.6b	With guidance and support, make observations using information that show how two different foods or conditions lead to the survival of animals	2
Standard: K. Interdependent Relationships in Ecosystems: Animals, Plants, and Their Environment: K-EES2 Earth's Systems			
Practice 7	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-ESS2-2.1b	Show examples of several ways that animals (including humans) adapt their homes to survive	2
	K-ESS2-2.2b	Show examples of several ways that plants adapt their location to survive	2
Standard: K. Interdependent Relationships in Ecosystems: Animals, Plants, and Their Environment: K-ESS3 Earth and Human Activity			
Practice 2	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.	
	K-ESS3-1.1b	Categorize foods and water needed by plants from two distinct ecosystems	2
	K-ESS3-1.2d	With guidance and support, create a model that shows how the food and water needed by plants change in two distinct ecosystems	4
	K-ESS3-1.3b	Categorize foods and water needed by animals (including humans) from two different ecosystems	2
	K-ESS3-1.4d	With guidance and support, create a model that shows how foods and water needed by animals (including humans) change in two distinct ecosystems	4
Practice 8	K-ESS3-3.	Communicate solutions that will reduce the impact of humans on the land, water, air, and/or other living things in the local environment.	

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	K-ESS3-3.1b	Find examples of ways people reuse natural resources found on the land, water, or air	2
	K-ESS3-3.2b	Categorize ways people reuse natural resources found on the land, water, or air	2
	K-ESS3-3.3b	With guidance and support, tell others about two ways that people reuse natural resources found on the land, water, or air	2
Standard: K. Weather and Climate: K-PS3 Energy			
Practice 3	K-PS3-1.	Make observations to determine the effect of sunlight on Earth's surface.	
	K-PS3-1.1a	Identify plants that need various amounts of sunlight to survive	1
	K-PS3-1.2b	Categorize the types of plants that need different amounts of sunlight to survive	2
	K-PS3-1.3b	With guidance and support, measure the growth of one type of plant after varying the amount of sunlight	2
Practice 6	K-PS3-2.	Use tools and materials to design and build a structure that will reduce the warming effect of sunlight on an area.	
	K-PS3-2.1a	Identify the characteristics of multiple materials that reduce the warming effect of sunlight	1
	K-PS3-2.2b	Categorize materials that should or should not reduce the warming effect of sunlight	2
	K-PS3-2.3d	With guidance and support, design a structure that reduces the warming effect of sunlight	4
	K-PS3-2.4c	With guidance and support, build a structure that reduces the warming effect of sunlight using appropriate tools and materials	3
Standard: K. Weather and Climate: K-EES2 Earth's Systems			
Practice 4	K-ESS2-1.	Use and share observations of local weather conditions to describe patterns over time.	
	K-ESS2-1.1b	Find examples of weather conditions that change over time	2
	K-ESS2-1.2b	With guidance and support, observe changes in one weather condition over time	2
	K-ESS2-1.3c	With guidance and support, create a chart or graph which presents observations of one weather condition over time	3
Standard: K. Weather and Climate: K-ESS3 Earth and Human Activity			
Practice 1, 8	K-ESS3-2.	Ask questions to obtain information about the purpose of weather forecasting to prepare for, and respond to, severe weather.	
	K-ESS3-2.1a	Recognize the signs and sounds that alert people about severe weather	1
	K-ESS3-2.2b	Ask questions about the places at home and school which are safe during severe weather	2
	K-ESS3-2.3b	Ask questions about how a weather reporter can help to prepare for severe weather	2