

2015 Blueprint - SCIENCE

Grade 4

Standards	Total Points per Standard	Skills	Branches	Benchmarks	Total # of Items per Benchmark (MC = 1pt. each)	# of Items Aligning Skill & Benchmark	Total # of Items per Branches (MC Items = 1 pt. each)	Percentage of Test Items per Branches (%)
Concepts & Processes	50	I.1 Observe and Question	Life Science	4.1.1 <u>Characteristics of Organisms</u> : Students describe observable characteristics of living things, including structures that serve specific functions and everyday behaviors.	5-6	I.1 - 0-1	16	32.00%
						I.2 - 1-2		
						I.3 - 0-1		
						I.4 - 0-1		
				4.1.2 <u>Life Cycles of Organisms</u> : Students sequence life cycles of living things, and recognize that plants and animals resemble their parents.	5-6	I.1 - 0-1		
						I.2 - 1-2		
			I.3 - 0-1					
			I.4 - 1-2					
		I.2 Design and Conduct a Scientific Investigation	Life Science	4.1.3 <u>Organisms and Their Environments</u> : Students show connections between living things, their basic needs, and the environments.	4-5	I.1 - 0-1		
				I.2 - 1-2				
				I.3 - 0-1				
				I.4 - 0-1				
I.3 Organize and Represent Data	Earth and Space Science	4.1.4 <u>Properties of Earth Materials</u> : Students investigate water, air, rocks, and soils to compare basic properties of earth materials.	4-5	I.1 - 0-1				
		I.2 - 0-1						
		I.3 - 0-1						
		I.4 - 1-2						
I.4 Draw Conclusions and Make Connections	Earth and Space Science	4.1.5 <u>Objects in the Sky</u> : Students describe observable objects in the sky and their patterns of movement.	5-6	I.1 - 0-1				
		I.2 - 0-1						
		I.3 - 0-1						
		I.4 - 1-2						
		Earth and Space Science	4.1.6 <u>Changes in Earth and Sky</u> : Students describe observable changes in earth and sky, including rapid and gradual changes to the earth's surface, and daily and seasonal changes in the weather.	5-6	I.1 - 0-1			
	I.2 - 1-2							
	I.3 - 1-2							
	I.4 - 1-2							

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		I.1 Observe and Question	Physical Science	4.1.7 <u>Properties of Objects</u> : Students classify objects by properties that can be observed, measured, and recorded, including color, shape, size, weight, volume, texture, and temperature.	4-5	I.1 - 0-1	18	36.00%		
		I.2 Design and Conduct a Scientific Investigation		4.1.8 <u>Changes in States of Matter</u> : Students demonstrate that the processes of heating and cooling can change matter from one state to another.		4-5			I.2 - 1-2	
		I.3 Organize and Represent Data		4.1.9 <u>Physical Phenomena</u> : Students investigate physical phenomena commonly encountered in daily life, including light, heat, electricity, sound, and magnetism.					4-5	I.3 - 0-1
		I.4 Draw Conclusions and Make Connections		4.1.10 <u>Position and Motion of Objects</u> : Students demonstrate that pushing and pulling can change the position and motion of objects.						4-5
					I.1 - 0-1					
					I.2 - 1-2					
					I.3 - 0-1					
					I.4 - 1-2					
					I.1 - 0-1					
					I.2 - 0-1					
					I.3 - 0-1					
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Science as Inquiry				4.2.1 Students research answers to science questions and present findings through appropriate means.	Not Assessed			
				4.2.2 Students use the inquiry process to conduct simple scientific investigations: 1) Collect and organize data; 2) Use data to construct simple graphs, charts, diagrams, and/or model; 3) Draw conclusions and accurately communicate results, making connections to daily life; 4) Pose or identify questions and make predictions; and 5) Conduct investigations to answer questions and check predictions	Assessed with Concepts & Processes			
				4.2.3 Students identify and use appropriate scientific equipment.				
				4.2.4 Students properly use safety equipment and recognize hazards and safety symbols while practicing standard safety procedures.				