NGSSS Benchmark	Content Focus	Number of Questions	Suggested Cognitive Complexity (per CPALMS)
Reporting Catego	ory 1: Definition of Science, Scientific Method, Ider Law	ntify Sources	
SC.912.N.1.1	Define, investigate, communicate problems about the	4	1 level 1
	natural world.	1	2 level 2
			1 level 3
SC.912.N.1.2,	Describe and explain what characterizes science and	1	1 level 3
	its methods.		
SC.912.N.2.1	Identify what is science, what clearly is not science,	1	1 level 3
	and what superficially resembles science (but fails		
	to meet the criteria for science).		
SC.912.N.1.3	Recognize that the strength and usefulness of a	2	2 level 2
	scientific claim is evaluated through scientific		
	argumentation.		
SC.912.N.1.4	Identify sources of information and assess their	2	2 level 2
	reliability.		
SC.912.N.3.1	Explain that a scientific theory is the culmination of	1	1 level 2
	many scientific investigations drawing together all		
	the current evidence concerning a substantial range		
	of phenomena; thus, a scientific theory represents		
	the most powerful explanation scientists have to		
	offer.		
SC.912.N.3.4	Recognize that theories do not become laws, nor do	1	1 level 2
	laws become theories; theories are well supported		
	explanations and laws are well supported		
	descriptions.		
	Reporting Category Total	12	
	ting Category 2: Interdependent Relationships in		
SC.912.L.17.18	Describe how human population size and resource	2	1 level 1
	use relate to environmental quality.		1 level 2
SC.912.L.17.1	Discuss the characteristics of populations, such as	1	1 level 2
	number of individuals, age structure, density, and		
	pattern of distribution.		
SC.912.L.17.2	Explain the general distribution of life in aquatic	2	1 level 1
	systems as a function of chemistry, geography,		1 level 2
	light, depth, salinity, and temperature.		
SC.912.L.17.4	Describe changes in ecosystems resulting from	1	1 level 2
	seasonal variations, climate change and succession.		
SC.912.L.17.5	Analyze how population size is determined by	1	1 level 2
	births, deaths, immigration, emigration, and limiting		
	factors (biotic and abiotic) that determine carrying		
	capacity.		
SC.912.L.17.6	Compare and contrast the relationships among	1	1 level 2
	organisms, including predation, parasitism,		
	competition, commensalism, and mutualism.		

SC.912.L.17.7	Characterize the biotic and abiotic components that define freshwater systems, marine systems and terrestrial systems.	1	1 level 2
SC.912.L.17.8	Recognize the consequences of the losses of biodiversity due to catastrophic events, climate changes, human activity, and the introduction of invasive, non-native species.	1	1 level 2
SC.912.L.17.9	Use a food web to identify and distinguish producers, consumers, and decomposers. Explain the pathway of energy transfer through trophic levels and the reduction of available energy at successive trophic levels.	2	1 level 1 1 level 2
SC.912.L.17.10	Diagram and explain the biogeochemical cycles of an ecosystem, including water, carbon, and nitrogen cycle.	2	1 level 1 1 level 2
	Reporting Category Total	14	
	Reporting Category 3: Environmental Impacts & Re	sources	
SC.912.L.17.12	Political, social, and environmental consequences of sustainable use of land.	2	1 level 2 1 level 3
SC.912.L.17.11	Evaluate costs and benefits of renewable and nonrenewable resources and how they are produced, rates of use.	2	2 level 2
SC.912.L.17.19	Describe how different natural resources are produced and how their rates of use and renewal limit availability.	3	2 level 2 1 level 1
SC.912.L.17.16	Discuss large-scale environmental impacts resulting from human activity.	2	1 level 1 1 level 2
SC.912.L.17.20	Predict the impact of individuals on environmental systems and examine how human lifestyles affect sustainability.	1	1 level 3
SC.912.L.18.12	Discuss the special properties of water that contribute to Earth's suitability as an environment for life: cohesive behavior, ability to moderate temperature, expansion upon freezing, and versatility as a solvent.	2	2 level 2
SC.912.C.1.3	Evaluate how environment and personal health are interrelated.	2	1 level 2 1 level 3
Reporting Category Total		14	1 icvci 3

Overall Percentage for Written Test:	100%
Overall Percentage for Performance	Tasks: