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<b>Environmental Science</b>	

2001349\_\_\_\_

11 & 12

Course Title

Course Number

Grade(s)

Main Idea		Percent of Test Based on	N (= :
(Big	Standard Code	Time Devoted to	Number of Test  Questions
Idea/Domain/Strand/Standard)	Code	Standard	(60 total)
Define a problem based on a		2%	1
specific body of knowledge.	SC.912.N.1.1		
Describe and explain what		2%	1
characterizes science and its	SC.912.N.1.2		
methods.	00.012		
		201	
Recognize that the strength or		2%	1
usefulness of a scientific claim is			
evaluated through scientific			
argumentation, which depends on critical and logical thinking,			
and the active consideration of	SC.912.N.1.3		
alternative scientific			
explanations to explain the data			
presented.			
presented			
Identify sources of information		2%	1
and assess their reliability			
according to the strict standards	SC.912.N.1.4		
of scientific investigation.			
Describe and provide examples		2%	1
of how similar investigations			
conducted in many parts of the	SC.912.N.1.5		
world result in the same			
outcome.			
Describe how scientific		2%	1
inferences are drawn from		Z/0	1
scientific observations and			
provide examples from the	SC.912.N.1.6		
content being studied.			
2.			
Identify what is science, what		2%	1
clearly is not science, and what			
superficially resembles science	SC.912.N.2.1		
(but fails to meet the criteria for	JC.J12.IV.Z.1		
science).			

Identify which questions can be answered through science and which questions are outside the boundaries of scientific investigation, such as questions addressed by other ways of knowing, such as art, philosophy, and religion.	SC.912.N.2.2	2%	1
Explain that scientific knowledge is both durable and robust and open to change. Scientific knowledge can change because it is often examined and re-examined by new investigations and scientific argumentation. Because of these frequent examinations, scientific knowledge becomes stronger, leading to its durability.	SC.912.N.2.4	2.5%	2
Explain that a scientific theory is the culmination of 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.3.1	2%	1
Describe the function of models in science, and identify the wide range of models used in science.	SC.912.N.3.5	2%	1
Explain how scientific knowledge and reasoning provide an empirically-based perspective to inform society's decision making.	SC.912.N.4.1	2.5%	2
Analyze past, present, and potential future consequences to the environment resulting from various energy production technologies.	SC.912.E.6.6	2.5%	2

Identify, analyze, and relate the internal (Earth system) and external (astronomical) conditions that contribute to global climate change.	SC.912.E.7.7	2%	1
Explain how various atmospheric, oceanic, and hydrologic conditions in Florida have influenced and can influence human behavior, both individually and collectively.	SC.912.E.7.8	2%	1
Cite evidence that the ocean has had a significant influence on climate change by absorbing, storing, and moving heat, carbon, and water.	SC.912.E.7.9	2%	1
Differentiate among the various forms of energy and recognize that they can be transformed from one form to others.	SC.912.P.10.1	2.5%	2
Explore the Law of Conservation of Energy by differentiating among open, closed, and isolated systems and explain that the total energy in an isolated system is a conserved quantity.	SC.912.P.10.2	2%	1
Explain the significance of genetic factors, environmental factors, and pathogenic agents to health from the perspectives of both individual and public health.	SC.912.L.14.6	2.5%	2
Describe how biological diversity is increased by the origin of new species and how it is decreased by the natural process of extinction.	SC.912.L.15.3	4%	2

Describe the conditions required for natural selection, including: overproduction of offspring, inherited variation, and the struggle to survive, which result in differential reproductive success.	SC.912.L.15.13	2.5%	2
Evaluate the impact of biotechnology on the individual, society and the environment, including medical and ethical issues.	SC.912.L.16.10	2%	1
Assess the need for adequate waste management strategies.	SC.912.L.17.14	2%	1
Discuss the effects of technology on environmental quality.	SC.912.L.17.15	2.5%	2
Discuss the political, social, and environmental consequences of sustainable use of land.	SC.912.L.17.12	5%	3
Describe how human population size and resource use relate to environmental quality.	SC.912.L.17.18	5%	3
Discuss the characteristics of populations, such as number of individuals, age structure, density, and pattern of distribution.	SC.912.L.17.1	5%	3
Describe changes in ecosystems resulting from seasonal variations, climate change and succession.	SC.912.L.17.4	2%	1

Analyze how population size is determined by births, deaths, immigration, emigration, and limiting factors (biotic and abiotic) that determine carrying capacity.	SC.912.L.17.5	2%	1
Compare and contrast the relationships among organisms, including predation, parasitism, competition, commensalism, and mutualism.	SC.912.L.17.6	2%	1
Characterize the biotic and abiotic components that define freshwater systems, marine systems and terrestrial systems.	SC.912.L.17.7	2%	1
Recognize the consequences of the losses of biodiversity due to catastrophic events, climate changes, human activity, and the introduction of invasive, non- native species.	SC.912.L.17.8	2%	1
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	SC.912.L.17.9	2%	1
Diagram and explain the biogeochemical cycles of an ecosystem, including water, carbon, and nitrogen cycle.	SC.912.L.17.10	2%	1
Evaluate the costs and benefits of renewable and nonrenewable resources, such as water, energy, fossil fuels, wildlife, and forests.	SC.912.L.17.11	3.5%	2

Discuss the need for adequate monitoring of environmental parameters when making policy decisions.	SC.912.L.17.13	2%	1	
Discuss the large-scale environmental impacts resulting from human activity, including waste spills, oil spills, runoff, greenhouse gases, ozone depletion, and surface and groundwater pollution.	SC.912.L.17.16	2.5%	2	
Describe how different natural resources are produced and how their rates of use and renewal limit availability.	SC.912.L.17.19	2.5%	2	
Predict the impact of individuals on environmental systems and examine how human lifestyles affect sustainability	SC.912.L.17.20	2.5%	2	
Evaluate how environment and personal health are interrelated.	HE.912.C.1.3	2.5%	2	
Assess the degree of susceptibility to injury, illness or death if engaging in unhealthy/risky behaviors.	HE.912.C.1.7	2%	1	
TOTALS		100 %		60
List All Common Course Teachers:				
Tanya Darress				