

Course Title: Marine Science 2 Honors - edited February 2017

Course Number: 2002530

NGSSS Benchmark	Content Focus	Number of Questions	Suggested Cognitive Complexity (per CPALMS)
Reporting Category 1: Nature of Science			
SC.912.N.1.1	Describe how the process of science works starting from the formation of a question about the natural world to communication of results from a reliable experiment.	2	(1) Level 2 (1) Level 3
SC.912.N.1.2	Describe / explain the scientific method	1	(1) Level 1
SC.912.N.1.4	Assess reliability of various sources and their usefulness to a scientific claim	2	(1) Level 1 (1) Level 2
SC.912.N.2.5	Explain how scientific knowledge is both robust and open to continual change as new discoveries arise	1	(1) Level 2
SC.912.N.3.1	Explain the formation of a theory.	1	(1) Level 1
<i>Reporting Category Total</i>		6	
Reporting Category 2: Earth Systems and Patterns			
SC.912.E.7.2	Surface and deep water circulation influencing heat transport and global climate.	2	(1) Level 1 (1) Level 2
SC.912.E.7.9	Ocean influence on climate through absorbing, and transporting heat, carbon, and water	3	(1) Level 1 (1) Level 2 (1) Level 3
SC.912.L.18.12	Special properties of water that lead to Earth's suitability for life.	2	(1) Level 1 (1) Level 2
SC.912.E.7.8	How human behavior is influenced by atmospheric, hydrologic, oceanic conditions in the state of Florida.	1	(1) Level 2
<i>(Added Standard)</i> SC.912.E.7.4	Summarize the conditions that contribute to the climate of a geographic area, including the relationships to lakes and oceans.	2	(2) Level 2
<i>Reporting Category Total</i>		9	
Reporting Category 3: Interdependence			
SC.912.L.17.4	Describe changes that take place in ecosystems due to succession.	3	(3) Level 2
SC.912.L.17.5	How the carrying capacity of a population can changes due to various factors: i.e. birth, death, immigration, emigration, and limiting factors	2	(2) Level 2
SC.912.L.17.7	Characterize biotic and abiotic factors of the marine ecosystem.	2	(1) Level 1 (1) Level 2
SC.912.L.17.10	Diagram and explain the biogeochemical cycles including water , carbon, and nitrogen.	3	(1) Level 1 (2) Level 2
<i>Reporting Category Total</i>		10	
Reporting Category 4: Human Impacts			
SC.912.E.17.16	Discuss the large-scale impacts of human activity: i.e. oil spills, runoff, greenhouse gases, and water pollution.	4	(1) Level 1 (3) Level 2
<i>(Added Standard)</i> SC.912.L.17.13	Discuss the need for adequate monitoring of environmental parameters when making policy decisions.	3	(1) Level 1 (2) Level 2

<i>(Added Standard)</i> SC.912.L.17.15	Discuss the effects of technology on environmental quality.	2	(2) Level 2
<i>(Added Standard)</i> SC.912.L.17.11	Evaluate the costs and benefits of renewable and nonrenewable resources, such as water, energy, fossil fuels, wildlife, and forests.	2 4	(2) Level 1 (2) Level 2
<i>Reporting Category Total</i>		11	
<i>Reporting Category 5: Technology Life in the Ocean</i> (<i>Fish/Sharks, Reptiles, Mammals, Mollusks, Arthropods</i>)			
SC.912.L.17.15	Discuss the impacts of technology on environmental quality.	5	(2) Level 1 (2) Level 2 (1) Level 3
<i>(Added Standard)</i> SC.912.L.15.7	Discuss distinguishing characteristics of vertebrate and representative invertebrate phyla, and chordate classes using typical examples.	8 4	(2) Level 1 (2) Level 2 (2) Level 3
<i>Reporting Category Total</i>		4	

Overall Percentage for Written Test: ___100% ___

Overall Percentage for Performance Tasks: _____