

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 |

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| <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: _____