

## Education Standards

### National Education Standards

Science: MS-LS2-1. Analyze and interpret data to provide evidence for the effects of resource availability on organisms and populations of organisms in an ecosystem.

ELA/Literacy: WHST.6-8.2 Write informative/explanatory texts to examine a topic.

ELA/Literacy: WHST.6-8.9 Draw evidence from informational texts to support analysis, reflection, and research.

ELA/Literacy: WHST.9-12.9 Draw evidence from informational texts to support analysis, reflection, and research.

ELA/Literacy: RST.11-12.9 Synthesize information from a range of sources into a coherent understanding of a concept.

Mathematics: HSN-Q.A.3 Choose a level of accuracy appropriate to limitations on measurement when report quantities.

Mathematics: 6.SP.B.5 Summarize numerical data sets in relation to their context.

### Texas Essential Knowledge and Skills (TEKS) - Science

6.2C Collect and record data using the International System of Units (SI) and qualitative means.

6.2E Analyze data to formulate reasonable explanations, communicate conclusions, and predict trends.

6.12E Describe biotic and abiotic parts of an ecosystem in which organisms interact.

7.2C Collect and record data using the International System of Units (SI) and qualitative means.

7.2E Analyze data to formulate reasonable explanations, communicate conclusions, and predict trends.

7.13A Investigate how organisms respond to external stimuli found in the environment.

8.2C Collect and record data using the International System of Units (SI) and qualitative means.

8.2E Analyze data to formulate reasonable explanations, communicate conclusions, and predict trends.

8.11D Recognize human dependence on ocean systems and explain how human activities have modified these systems.

Aquatic Science.2F Collect data, make accurate measurements, record values, and calculate relevant quantities.

Aquatic Science.2J Communicate valid conclusions.

Aquatic Science.3B Communicate and apply scientific information extracted from various sources.

Aquatic Science.4A Identify key features and characteristics of atmospheric, geological, hydrological and biological systems as they relate to aquatic environments.

Aquatic Science.6B Examine the interrelationships between aquatic systems and climate and weather.

Aquatic Science.12A Predict effects of chemical, organic, physical, and thermal changes from humans on the living and nonliving components of an aquatic ecosystem.

Biology.2F Collect and organize data and make accurate measurements.

Biology.2J Communicate valid conclusions.

Biology.11B Investigate and analyze how organisms, populations, and communities respond to external factors.

Earth/Space Science.2G Make inferences and predict trends from data.

Earth/Space Science.2I Communicate valid conclusions.

Earth/Space Science.15B Investigate evidence such as cores for climate variability and its use in developing computer models to explain present and predict future climates.

### Ocean Literacy Principles

2. The ocean and life in the ocean shape the features of Earth. (a)

5. The ocean supports a great diversity of life and ecosystems. (a,f)

### Climate Literacy Principles

3. Life on Earth depends on, is shaped by, and affects climate. (a, c)

4. Climate varies over space and time through both natural and man-made processes. (e)