SCIENCE

Strand H: The Nature of Science

Standard 1: The student uses the scientific processes and habits of mind to solve problems.

Benchmarks
SC.H.1.2.1 The student knows that it is important to keep accurate records and descriptions to provide information and clues on causes of discrepancies in repeated experiments.
SC.H.1.2.2 The student knows that a successful method to explore the natural world is to observe and record, and then analyze and communicate the results.
SC.H.1.2.3 The student knows that to work collaboratively, all team members should be free to reach, explain, and justify their own individual conclusions.
SC.H.1.2.4 The student knows that to compare and contrast observations and results is an essential skill in science.

Standard 2: The student understands that most natural events occur in comprehensible, consistent patterns

Benchmark
SC.H.2.2.1 The student knows that natural events are often predictable and logical.

Standard 3: The student understands that science, technology, and society are interwoven and interdependent.

Benchmarks
SC.H.3.2.1 The student understands that people, alone or in groups, invent new tools to solve problems and do work that affects aspects of life outside of science.
SC.H.3.2.2 The student knows that data are collected and interpreted in order to explain an event or concept.
SC.H.3.2.4 The student knows that, through the use of science processes and knowledge, people can solve problems, make decisions, and form new ideas.
Strand E: Data Analysis and Probability

Standard 1: The student understands and uses the tools of data analysis for managing information.

Benchmarks

MA.E.1.2.1 The student solves problems by generating, collecting, organizing, displaying, and analyzing data using histograms, bar graphs, circle graphs, line graphs, pictographs, and charts.

MA.E.1.2.3 The student analyzes real-world data to recognize patterns and relationships of the measures of central tendency using tables, charts, histograms, bar graphs, line graphs, pictographs, and circle graphs generated by appropriate technology, including calculators and computers.
Strand A: Reading

Standard 1: The student uses the reading process effectively.

Benchmarks
LA.A.1.2.1 The student uses a table of contents, index, headings, captions, illustrations, and major words to anticipate or predict content and purpose of a reading selection.
LA.A.1.2.4 The student clarifies understanding by rereading, self-correction, summarizing, checking other sources, and class or group discussion.

Standard 2: The student constructs meaning from a wide range of texts.

Benchmarks
LA.A.2.2.1 The student reads text and determines the main idea or essential message, identifies relevant supporting details and facts, and arranges events in chronological order.
LA.A.2.2.2 The student identifies the author's purpose in a simple text.
LA.A.2.2.5 The student reads and organizes information for a variety of purposes, including making a report, conducting interviews, taking a test, and performing an authentic task.
LA.A.2.2.8 The student selects and uses a variety of appropriate reference materials, including multiple representations of information, such as maps, charts, and photos, to gather information for research projects.

Strand B: Writing

Standard 2: The student writes to communicate ideas and information effectively.

Benchmarks
LA.B.2.2.3 The student writes for a variety of occasions, audiences, and purposes.
LA.B.2.2.5 The student creates narratives in which ideas, details, and events are in logical order and are relevant to the story line.

Strand C: Listening, Viewing, and Speaking

Standard 1: The student uses listening strategies effectively.

Benchmarks
LA.C.1.2.1 The student listens and responds to a variety of oral presentations, such as stories, poems, skits, songs, personal accounts, informational speeches.
LA.C.1.2.3 The student carries on an extended conversation with a group of friends.
LA.C.1.2.4 The student listens attentively to the speaker, including making eye contact and facing the speaker.

Standard 3: The student uses speaking strategies effectively.

Benchmarks
LA.C.3.2.3 The student speaks for specific occasions, audiences, and purposes, including conversations, discussions, projects, and informational or imaginative presentations.
LA.C.3.2.5 The student participates as a contributor and occasionally acts as a leader in a group discussion.