SCIENCES

Strand A: The Nature of Matter

Standard 1: The student understands that all matter has observable, measurable properties.

Benchmarks
- SC.A.1.2.1 The student determines that the properties of materials (e.g., density and volume) can be compared and measured (e.g., using rulers, balances, and thermometers).
- SC.A.1.2.2 The student knows that common materials (e.g., water) can be changed from one state to another by heating and cooling.

Strand D: Processes that Shape the Earth

Standard 1: The student recognizes that processes in the lithosphere, atmosphere, hydrosphere, and biosphere interact to shape the Earth.

Benchmarks
- SC.D.1.2.1 The student knows that larger rocks can be broken down into smaller rocks, which in turn can be broken down to combine with organic material to form soil.
- SC.D.1.2.3 The student knows that temperature, pressure, and the topography of the land influence the water cycle.
- SC.D.1.2.5 The student knows that some changes in the Earth’s surface are due to slow processes and some changes are due to rapid processes.

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.
- SC.H.1.2.5 The student knows that a model of something is different from the real thing, but can be used to learn something about the real thing.
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.
MATH

Strand C: Geometry and Spatial Sense

Standard 1: The student describes, draws, identifies, and analyzes two- and three-dimensional shapes.

Benchmark

MA.C.1.2.1 The student given a verbal description, draws and/or models two- and three-dimensional shapes and uses appropriate geometric vocabulary to write a description of a figure or a picture composed of geometric figures.
**LANGUAGE ARTS**

**Strand A: Reading**

**Standard 1:** The student uses the reading process effectively.

**Benchmark**

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.

**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.2.2.5 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 1:** The student uses writing processes effectively.

**Benchmarks**

LA.B.1.2.1 The student prepares for writing by recording thoughts, focusing on a central idea, grouping related ideas, and identifying the purpose for writing.

LA.B.2.2.3 The student writes for a variety of occasions, audiences, and purposes.

**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.

LA.C.1.2.5 The student responds to speakers by asking questions, making contributions, and paraphrasing what is said.

**Standard 3:** The student uses speaking strategies effectively.

**Benchmarks**

LA.C.3.2.1 The student speaks clearly at an understandable rate and uses appropriate volume.

LA.C.3.2.2 The student asks questions and makes comments and observations to clarify understanding of content, processes, and experiences.

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.3.2.4 The student uses eye contact and gestures that engage the audience.

LA.C.3.2.5 The student participates as a contributor and occasionally acts as a leader in a group discussion.

**Strand D: Language**
Standard 1: The student understands the nature of language.

Benchmark
L.A.D.1.2.1 The student understands that there are patterns and rules in the syntactic structure, symbols, sounds, and meanings conveyed through the English language.