Acid Rain

Grades 6-10

Benchmarks for the Sunshine State Standards
Correlation for Grades 6-8 Only

SCIENCE

Strand A: The Nature of Matter

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

Benchmark
SC.A.1.3.1 The student identifies various ways in which substances differ (e.g., mass, volume, shape, density, texture, and reaction to temperature and light).

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.1.3.1 The student knows that mechanical and chemical activities shape and reshape the Earth’s land surface by eroding rock and soil in some areas and depositing them in other areas, sometimes in seasonal layers.
SC.D.1.3.2 The student knows that over the whole Earth, organisms are growing, dying, and decaying as new organisms are produced by the old ones.
SC.D.1.3.3 The student knows how conditions that exist in one system influence the conditions that exist in other systems.
SC.D.1.3.4 The student knows the ways in which plants and animals reshape the landscape (e.g., bacteria, fungi, worms, rodents, and other organisms add organic matter to the soil, increasing soil fertility, encouraging plant growth, and strengthening resistance to erosion).

Standard 2: The student understands the need for protection of the natural systems on Earth.

Benchmarks
SC.D.2.3.1 The student understands that quality of life is relevant to personal experience.
SC.D.2.3.2 The student knows the positive and negative consequences of human action on the Earth’s systems.
**Strand F: Processes of Life**

**Standard 1:** The student describes patterns of structure and function in living things.

**Benchmark**
SC.F.1.3.3 The student knows that in multicellular organisms cells grow and divide to make more cells in order to form and repair various organs and tissues.

**Strand G: How Living Things Interact with Their Environment**

**Standard 2:** The student understands the consequences of using limited natural resources.

**Benchmarks**
SC.G.2.3.1 The student knows that some resources are renewable and others are nonrenewable.
SC.G.2.3.4 The student understands that humans are a part of an ecosystem and their activities may deliberately or inadvertently alter the equilibrium in ecosystems.

**Strand H: The Nature of Science**

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

**Benchmark**
SC.H.1.3.4 The student knows that accurate record keeping, openness, and replication are essential to maintaining an investigator’s credibility with other scientists and society.

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

**Benchmark**
SC.H.3.3.1 The student knows that science ethics demand that scientists must not knowingly subject coworkers, students, the neighborhood, or the community to health or property risks.
Number Sense, Concepts, and Operations

Standard 2: The student understands number systems.

Benchmarks
MA.A.2.3.1 The student understands and uses exponential and scientific notation.
MA.A.2.3.2 The student understands the structure of number systems other than the decimal number system.

Strand B: Measurement

Standard 2: The student compares, contrasts, and converts within systems of measurement.

Benchmark
MA.B.2.3.1 The student uses direct (measured) and indirect (nonmeasured) measures to compare a given characteristic in either metric or customary units.

Strand D: Algebraic Thinking

Standard 1: The student describes, analyzes, and generalizes a wide variety of patterns, relations, and functions.

Benchmarks
MA.D.1.3.1 The student describes a wide variety of patterns, relationships, and functions through models, such as manipulatives, tables, graphs, expressions, equations, and inequalities.
MA.D.1.3.2 The student creates and interprets tables, graphs, equations, and verbal descriptions to explain cause-and-effect relationships.

Strand E: Data Analysis and Probability

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

Benchmark
MA.E.1.3.1 The student collects, organizes, and displays data in a variety of forms, including tables, line graphs, charts, bar graphs, to determine how different ways of presenting data can lead to different interpretations.
Standard 3: The student uses statistical methods to make inferences and valid arguments about real-world situations.

Benchmark
MA.E.3.3.1 The student formulates hypotheses, designs experiments, collects and interprets data, and evaluates hypotheses by making inferences and drawing conclusions based on statistics (range, mean, median, mode) and tables, graphs, and charts.


**LANGUAGE ARTS**

**Strand A: Reading**

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

**Benchmark**
LA.A.1.3.3 The student demonstrates consistent and effective use of interpersonal and academic vocabularies in reading, writing, listening, and speaking.

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

**Benchmarks**
LA.A.2.3.4 The student uses a variety of reading materials to develop personal preferences in reading.
LA.A.2.3.5 The student locates, organizes, and interprets written information for a variety of purposes, including classroom research, collaborative decision making, and performing a school or real-world task.

**Strand B: Writing**

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

**Benchmark**
LA.B.2.3.1 The student writes text, notes, outlines, comments and observations that demonstrate comprehension of content and experiences from a variety of media.

**Strand C: Listening, Viewing, and Speaking**

**Standard 1: The student uses listening strategies effectively.**

**Benchmarks**
LA.C.1.3.1 The student listens and uses information gained for a variety of purposes, such as gaining information from interviews, following direction, and pursuing personal interest.
LA.C.1.3.4 The student uses responsive listening skills, including paraphrasing, summarizing, and asking questions for elaboration and clarification.

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

**Benchmarks**
LA.C.3.3.2 The student asks questions and makes comments and observations that reflect understanding and application of content, processes, and experiences.
LA.C.3.3.3 The student speaks for various occasions, audiences, and purposes, including conversations, discussions, projects, and informational, persuasive, or technical presentations.
Social Studies

**Strand B: People, Places, and Environments [Geography]**

**Standard 2:** The student understands the interactions of people and the physical environment.

**Benchmarks**
- SS.B.2.3.6 The student understands the environmental consequences of people changing the physical environment in various world locations.
- SS.B.2.3.9 The student understands how the interaction between physical and human systems affects current conditions on Earth.

**Strand C: Government and the Citizen [Civics & Government]**

**Standard 2:** The student understands the role of the citizen in American democracy.

**Benchmark**
- SS.C.2.3.6 The student understands the importance of participation in community service, civic improvement, and political activities.