Involving Dissolving

Grades 1-3

Grade Level Expectations for the Sunshine State Standards

SCIENCE

Strand A: The Nature of Matter

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

Benchmarks
SC.A.1.1.1 The student knows that objects can be described, classified, and compared by their composition (e.g., wood or metal) and their physical properties (e.g., color, size, and shape).
SC.A.1.1.2 The student recognizes that the same material can exist in different states.
SC.A.1.1.3 The student verifies that things can be done to materials to change some of their physical properties (e.g., cutting, heating, and freezing), but not all materials respond the same way (e.g., heating causes water to boil and sugar to melt).
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.

Standard 2: The student understands the basic principles of atomic theory.

Benchmark
SC.A.2.2.1 The student knows that materials may be made of parts too small to be seen without magnification.

Strand H: The Nature of Science

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

Benchmarks
SC.H.1.1.1 The student knows that in order to learn, it is important to observe the same things often and compare them.
SC.H.1.1.3 The student knows that in doing science, it is often helpful to work with a team and to share findings with others.
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, 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.

**Benchmarks**

SC.H.2.1.1 The student knows that most natural events occur in patterns.
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.

**Benchmark**

SC.H.3.2.2 The student knows that data are collected and interpreted in order to explain an event or concept.
Strand B: Measurement

Standard 1: The student measures quantities in the real world and uses the measures to solve problems.

Benchmark
MA.B.1.1.1 The student uses and describes basic measurement concepts including length, weight, digital and analog time, temperature, and capacity.
MA.B.1.1.2 The student uses standard customary and metric (centimeter, inch) and nonstandard units, such as links or blocks, in measuring real quantities.
MA.B.1.2.1 The student uses concrete and graphic models to develop procedures for solving problems related to measurement including length, weight, time, temperature, perimeter, area, volume, and angle.
MA.B.1.2.2 The student solves real-world problems involving length, weight, perimeter, area, capacity, volume, time, temperature, and angles.

Standard 2: The student compares, contrasts, and converts within systems of measurement (both standard/nonstandard and metric/customary).

Benchmarks
MA.B.2.1.1 The student uses direct (measured) and indirect (not measured) comparisons to order objects according to some measurable characteristics (length, weight).
MA.B.2.1.2 The student understands the need for a uniform unit of measure to communicate in real-world situations.

Standard 3: The student estimates measurements in real-world problem situations.

Benchmark
MA.B.3.1.1 The student using a variety of strategies, estimates length, widths, time intervals, and money and compares them to actual measurements.

Standard 4: The student selects and uses appropriate units and instruments for measurement to achieve the degree of precision and accuracy required in real-world situations.

Benchmarks
MA.B.4.1.2 The student selects and uses appropriate instruments, such as scales, rulers, clocks, and technology to measure within customary or metric systems.
MA.B.4.2.1 The student determines which units of measurement, such as seconds, square inches, dollars per tankful, to use with answers to real-world problems.
MA.B.4.2.2 The student selects and uses appropriate instruments and technology, including scales, rulers, thermometers, measuring cups, protractors, and gauges, to measure in real-world situations.

Strand E: Data Analysis and Probability

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

Benchmarks
MA.E.1.1.1 The student displays solutions to problems by generating, collecting, organizing, and analyzing data using simple graphs and charts.
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.

Standard 2: The student identifies patterns and makes predictions from an orderly display of data using concepts of probability and statistics.

Benchmarks
MA.E.2.1.1 The student understands basic concepts of chance and probability.
MA.E.2.1.2 The student predicts which simple event is more likely, equally likely, or less likely to occur.

Standard 3: The student uses statistical methods to make inferences and valid arguments about real-world situations.

Benchmarks
MA.E. 3.1.1 The student designs a simple experiment to answer a class question, collects appropriate information, and interprets the results using graphical displays of information, such as line graphs, pictographs, and charts.
MA.E.3.1.2 The student decides what information is appropriate and how data can be collected, displayed, and interpreted to answer relevant questions.
MA.E.3.2.1 The student designs experiments to answer class or personal questions, collects information, and interprets the results using statistics (range, mean, median, and mode) and pictographs, charts, bar graphs, circle graphs, and line graphs.
MA.E.3.2.2 The student uses statistical data about life situations to make predictions and justifies reasoning.
LANGUAGE ARTS

Strand A: Reading

Standard 1: The student uses the reading process effectively.

Benchmarks
LA.A.1.1.1 The student predicts what a passage is about based on its title and illustrations.
LA.A.1.1.3 The student uses knowledge of appropriate grade-, age-, and developmental-level vocabulary in reading.
LA.A.1.1.4 The student increases comprehension by rereading, retelling, and discussion.
LA.A.1.2.3 The student uses simple strategies to determine meaning and increase vocabulary for reading, including the use of prefixes, suffixes, root words, multiple meanings, antonyms, synonyms, and word relationships.

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

Benchmarks
LA.A.2.1.2 The student selects material to read for pleasure.
LA.A.2.1.3 The student reads for information to use in performing a task and learning a new task.
LA.A.2.1.4 The student knows strategies to use to discover whether information presented in a text is true, including asking others and checking another source.
LA.A.2.1.5 The student uses simple materials of the reference system to obtain information.
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.

Strand B: Writing

Standard 1: The student uses writing processes effectively.

Benchmarks
LA.B.1.1.1 The student makes a plan for writing that includes a central idea and related ideas.
LA.B.1.1.2 The student drafts and revises simple sentences and passages, stories, letters, and simple explanations that express ideas clearly; show an awareness of topic and audience; have a beginning, middle, and ending; effectively use common word have supporting detail; and are in legible printing.
LA.B.1.1.3 The student produces final simple documents that have been edited for correct spelling; appropriate end punctuation; correct capitalization of initial words, “I,” names of people; correct sentence structure; and correct usage of age-appropriate verb/subject and noun/pronoun agreement.

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

Benchmarks
LA.B.2.1.1 The student writes questions and observations about familiar topics, stories, or new experiences.
LA.B.2.1.2 The student uses knowledge and experience to tell about experiences or to write for familiar occasions, audiences, and purposes.
LA.B.2.1.4 The student composes simple sets of instructions for simple tasks using logical sequencing of steps.

Strand C: Listening, Viewing, Speaking
Standard 1: The student uses listening strategies effectively.

Benchmarks
LA.C.1.1.1  The student listens for a variety of informational purposes, including curiosity, pleasure, getting directions, performing tasks, solving problems, and following rules.
LA.C.1.1.3 The student carries on a conversation with another person, seeking answers and further explanations of the other's ideas through questioning and answering.
LA.C.1.1.4 The student retells specific details of information heard, including sequence of events.

Standard 3: The student uses speaking strategies effectively.

Benchmarks
LA.C.3.1.1 The student speaks clearly and at a volume audible in large- or small-group settings.
LA.C.3.1.2 The student asks questions to seek answers and further explanation of other people's ideas.
LA.C.3.2.2 The student asks questions and makes comments and observations to clarify understanding of content, processes, and experiences.
LA.C.3.2.5 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.

Benchmarks
LA.D.1.1.1 The student recognizes basic patterns in and functions of language (patterns such as characteristic sounds and rhythms and those found in written forms; functions such as asking questions, expressing oneself, describing objects or experience, and explaining).
LA.D.1.2.2 The student understands that language formality varies according to situations and audiences.

Strand E: Literature

Standard 1: The student understands the common features of a variety of literary forms.

Benchmarks
LA.E.1.1.1 The student knows the basic characteristics of fables, stories, and legends.
LA.E.1.1.2 The student identifies the story elements of setting, plot, character, problem, and solution/resolution.