**Vitamin C Testing**

**Grades 4-8**

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**Grade Level Expectations for the Sunshine State Standards**

**Correlation for Primary Level Grades 4-5 Only**

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**SCIENCE**

**Strand A: The Nature of Matter**

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

**Benchmarks**

- 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.
- SC.A.1.2.4 The student knows that different materials are made by physically combining substances and that different objects can be made by combining different materials.
- SC.A.1.2.5 The student knows that materials made by chemically combining two or more substances may have properties that differ from the original materials.

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.1.2.1 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.

**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.

Benchmarks

SCH.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.3.2.3 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.

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

Benchmark
MA.E.2.2.2 The student predicts the likelihood of simple events occurring.

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

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

**Benchmarks**

- LA.A.2.1.1 The student determines the main idea or essential message from text and identifies supporting information.
- 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.