In All Probability

Grades 3-6

Grade Level Expectations for the Sunshine State Standards
Correlation for Primary Grades 3-5 Only

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.3.2.4 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.

**Benchmark**
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.2.2.1 The student uses models, such as tree diagrams, to display possible outcomes and to predict events.
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.
Strand B: Writing

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

Benchmarks
LA.B.2.2.1 The student writes notes, comments, and observations that reflect comprehension of content and experiences from a variety of media.
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.