Quadice
Grades 4-8

Grade Level Expectations for the Sunshine State Standards Correlation for 4-5 grades only

MATH

Strand A: Number Sense, Concepts, and Operations

Standard 1: The student understands the different ways numbers are represented and used in the real world.

Benchmarks
M.A.A. 1.2.2 The student understands the relative sizes of whole numbers, commonly used fractions, decimals, and percents.
M.A.A. 1.2.3 The student understands concrete and symbolic representations of whole numbers, fractions, decimals, and percents in real-world situations.
M.A.A. 1.2.4 The student understands that numbers can be represented in a variety of equivalent forms using whole numbers, decimals, fractions, and percents.

Standard 3: The student understands the effects of operations on numbers and the relationship among these operations, selects appropriate operations, and computes for problem solving.

Benchmarks
M.A.A. 3.2.2 The student selects the appropriate operation to solve specific problems involving addition, subtraction, and multiplication of whole numbers, decimals, and fractions, and division of whole numbers.
M.A.A. 3.2.3 The student adds, subtracts, and multiplies whole numbers, decimals, and fractions, including mixed numbers, and divides whole numbers to solve real-world problems, using appropriate methods of computing, such as mental math, paper and pencil, and calculator.

Standard 4: The student uses estimation in problem solving and computation.

Benchmark
M.A.A. 4.2.1 The student uses and justifies different estimation strategies in a real-world problem situation and determines the reasonableness of results of calculations in a given problem situation.

Strand C: Geometry and Spatial Sense

Standard 3: The student uses coordinate geometry to locate objects in both two and three dimensions and to describe objects algebraically.

Benchmark
M.A.C. 3.2.2 The student identifies and plots positive ordered pairs in a coordinate system.

Strand E: Data Analysis and Probability

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

Benchmark
M.A.E. 1.2.3 The student analyzes real-world data to recognize patterns and relationships using tables, charts, and graphs.

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

Benchmarks
M.A.E. 2.2.1 The student uses models, such as tree diagrams, to display possible outcomes and to predict events.
M.A.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
M.A.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 tables, charts and graphs.
M.A.E. 3.2.2 The student uses statistical data about life situations to make predictions and justifies reasoning.
LANGUAGE ARTS

Strand B: Writing

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

Benchmark
L.A.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
L.A.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.
L.A.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
L.A.C. 3.2.2 The student asks questions and makes comments and observations to clarify understanding of content, processes, and experiences.
L.A.C. 3.2.3 The student speaks for specific occasions, audiences, and purposes, including conversations, discussions, projects, and informational or imaginative presentations.

SCIENCE

Strand H: The Nature of Science

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

Benchmarks
S.C.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.
S.C.H 1.2.2 The student knows that a successful method to explore the natural world is to observe and record, then analyze and communicate the results.
S.C.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.
S.C.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
S.C.H 1.2.2 The student knows that natural events are often predictable and logical.

SLP