Aquatic Habitats
Grades 2-6

Grade Level Expectations for the Sunshine State Standards

SCIENCE

Strand F: Processes of Life

Standard 1: The Student describes patterns of structure and living things.

Benchmarks
SC.F.1.1.1 The student knows the basic needs of all living things.
SC.F.1.1.2 The student knows how to apply knowledge about life processes to distinguish between living and nonliving things.
SC.F.1.2.2 The student knows how all animals depend on plants.
SC.F.1.1.3 The student describes how organisms change as they grow and mature.
SC.F.1.2.3 The student knows that living things are different but share similar structures.
SC.F.1.1.4 The student understands that structures of living things are adapted to their function in specific environments.
SC.F.1.1.5 The student compares and describes the structural characteristics of plants and animals.

Standard 2: The student understands the process and importance of genetic diversity.

Benchmark
SC.F.2.1.2 The student knows that there are many different kinds of living things that live in a variety of environments.

Strand G: How Living Things Interact with Their Environments.

Standard 1: The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmarks
SC.G.1.1.1 The student knows that environments have living and nonliving parts.
SC.G.1.2.1 The student knows ways that plants, animals, and protists interact.
SC.G.1.1.2 The student knows that plants and animals are dependent upon each other for survival.
SC.G.1.2.2 The student knows that living things compete in a climatic region with other living things and that structural adaptations make them fit for an environment.
SC.G.1.1.3 The student knows that there are many different plants and animals living in many different kinds of environments (e.g., hot, cold, wet, dry, sunny, and dark).
SC.G.1.2.3 The student knows that green plants use carbon dioxide, water, and sunlight energy to turn minerals and nutrients into food for growth, maintenance, and reproduction.
SC.G.1.1.4 The student knows that animals and plants can be associated with their environment by an examination of their structural characteristics.
SC.G.1.2.4 The student knows that some organisms decompose dead plants and animals into simple minerals and nutrients for use by living things and thereby recycle matter.
SC.G.1.2.5 The student knows that animals eat plants or other animals to acquire the energy they need for survival.

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

SC.G.2.2.1 The student knows that all living things must compete for Earth’s limited resources; organisms best adapted to compete for the available resources will be successful and pass their adaptations (traits) to their offspring. The student knows that the size of a population is dependent upon the available resources within its community.

SC.G.2.2.3 The student understands that changes in the habitat of an organism may be beneficial or harmful.

**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.1.2.1 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.3.1.1 The student knows that scientists and technologists use a variety of tools (e.g., thermometers, magnifiers, rulers, and scales) to obtain information in more detail and to make work easier.

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

SC.H.3.2.4 The student knows that, through the use of science processes and knowledge, people can solve problems, make decisions, and form new ideas.
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
MA.A.1.1.1 The student associates verbal names, written word names, and standard numerals with the whole numbers less than 1000.

Standard 2: The student understands number systems.

Benchmark
MA.A.2.1.2 The student uses number patterns and the relationships among counting, grouping, and place value strategies to demonstrate an understanding of the whole number system.

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.

Benchmark
MA.A.3.2.1 The student understands and explains the effects of addition, subtraction, and multiplication on whole numbers, decimals, and fractions, including mixed numbers, and the effects of division on whole numbers, including the inverse relationship of multiplication and division.

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

Benchmark
MA.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 D: Algebraic Thinking

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

Benchmarks
MA.D.1.1.1 The student describes a wide variety of classification schemes and patterns related to physical characteristics and sensory attributes, such as rhythm, sound, shapes, colors, numbers, similar objects, similar events.
MA.D.2.1.2 The student uses informal methods to solve real-world problems requiring simple equations that contain one variable.
MA.D.2.2.2 The student uses informal methods, such as physical models and graphs to solve real-world problems involving equations and inequalities.

Strand E: Data Analysis and Probability

Standard 1: The student understands and uses the tools of data analysis for managing information.
**Benchmark**
MA.E.1.1.1 The student displays solutions to problems by generating, collecting, organizing, and analyzing data using simple graphs and charts

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

**Benchmark**
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.
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.

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.
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.

Strand C: Listening, Viewing, and 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.

Strand D: Language

Standard 1: The student understands the nature of language.

Benchmark
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).