Moons of Jupiter

Grades 4-9

Grade Level Expectations for the Sunshine State Standards
Correlation for Primary Grades 4-5 Only

SCIENCE

Strand E: Earth and Space

Standard 1: The student understands the interaction and organization in the Solar System and the universe and how this affects life on Earth.

Benchmarks
SC.E.1.2.2 The student knows that the combination of the Earth’s movement and the Moon’s own orbit around the Earth results in the appearance of cyclical phases of the Moon.
SC.E.1.2.4 The student knows that the planets differ in size, characteristics, and composition and that they orbit the Sun in our Solar System.
SC.E.1.2.5 The student understands the arrangement of planets in our Solar System.

Standard 2: The student recognizes the vastness of the universe and the Earth’s place in it.

Benchmark
SC.E.2.2.1 The student knows that, in addition to the Sun, there are many other stars that are far away.

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.3.2.2 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 before a group of people build something or try something new, they should determine how it may affect other people.

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 B: Measurement**

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

**Benchmark**
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.

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

**Benchmark**
MA.B.2.2.2 The student selects and uses appropriate standard and nonstandard units of measurement, according to type and size.

**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.
**Strand A: Reading**

**Standard 1: The student uses the reading process effectively.**

**Benchmark**  
LA.A.1.2.4  The student clarifies understanding by rereading, self-correction, summarizing, checking other sources, and class or group discussion.

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

**Benchmarks**  
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.  
LA.A.2.2.8  The student selects and uses a variety of appropriate reference materials, including multiple representations of information, such as maps, charts, and photos, to gather information for research projects.

**Strand B: Writing**

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

**Benchmark**  
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.

**Standard 3: The student uses speaking strategies effectively.**

**Benchmarks**  
LA.C.3.2.3  The student speaks for specific occasions, audiences, and purposes, including conversations, discussions, projects, and informational or imaginative presentations.  
LA.C.3.2.4  The student uses eye contact and gestures that engage the audience.  
LA.C.3.2.5  The student participates as a contributor and occasionally acts as a leader in a group discussion.